

January Ops Forum

16th January 2025 Starts at 10:02am



Introduction & Agenda

Rachel Hinsley

Operational Liaison & Business Delivery Manager

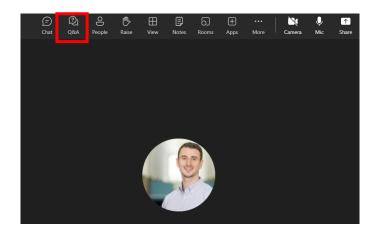


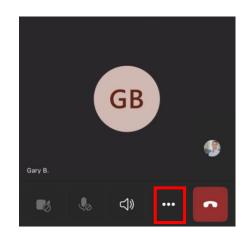


Housekeeping for Forum

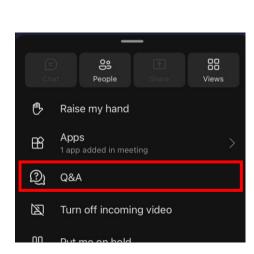
- For Microsoft Teams participants;
- Attendees will be automatically muted on dial-in and cameras will be unavailable.
- We have included some time to answer questions following the presentations.
- You can ask questions anonymously via Teams Q&A













Agenda

Welcome and Introduction	Rachel Hinsley – Operational Liaison & Business Delivery Manager	10:02
Operational Updates	Gareth Hocking — Head of Operational Delivery	10:03
NCC Overview	Simon Hill – Commercial Lead	10:13
Gemini Sustain Plus Update	Bill Goode – Senior System Delivery Lead	10:30
East Coast Hydrogen	Ed Gilford – Senior Hydrogen Development Engineer	10:40
RIIO-3 Customer Impact & Investment (Asset)	James Ganendra— Senior Stakeholder Manager and Chipego Changula- Senior Asset Manager	10:55
Blending Commercial Framework	Danielle Fleet – Senior Market Development Lead	11:25
General Updates	Rachel Hinsley – Operational Liaison & Business Delivery Manager	11:40
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Please ask any questions using **Teams**

Questions will be covered at the end of each agenda section.

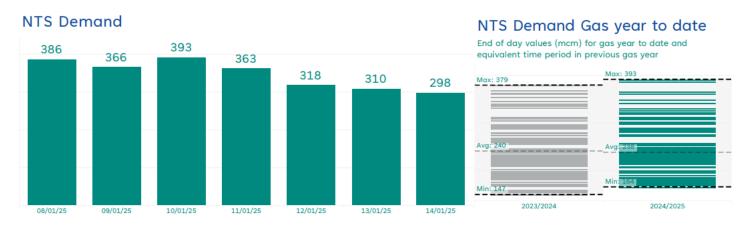
Operational Updates

Gareth HockingHead of Operational Delivery





NTS Supply/Demand



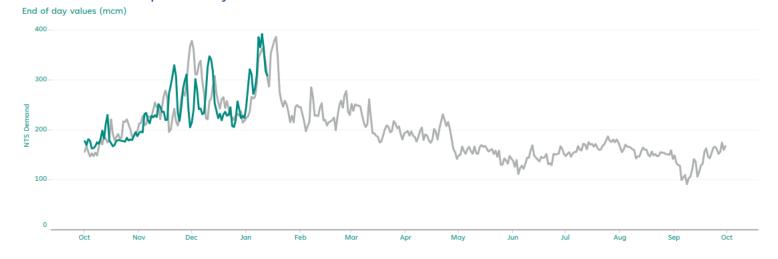
NTS Avg Supply/Demand 2023 vs 2024

240 mcm/d vs 238 mcm/d

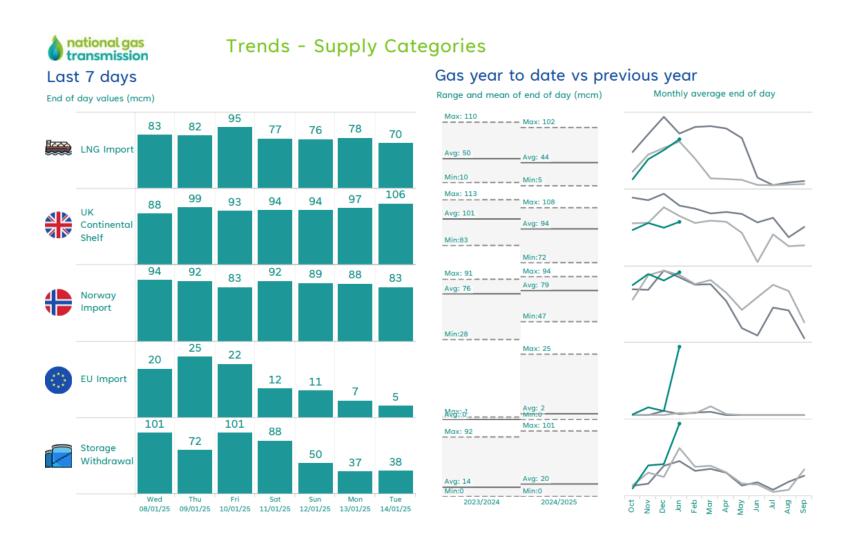
January 2025 Supply/Demand Average

• 319 mcm/d

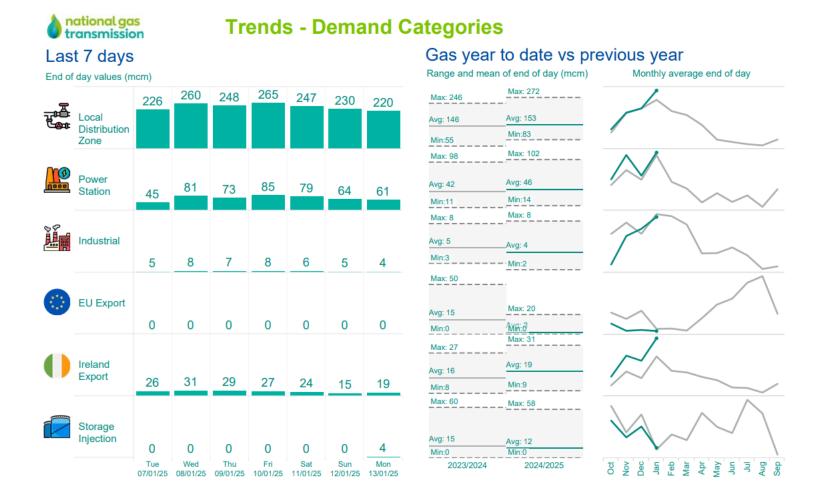
NTS Demand vs previous year



NTS Supply Breakdown

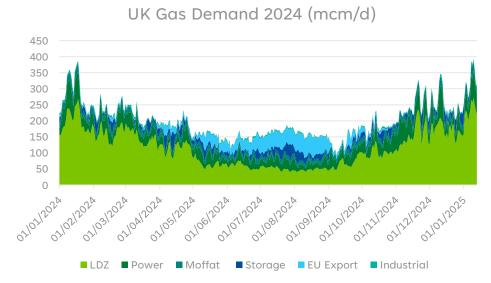


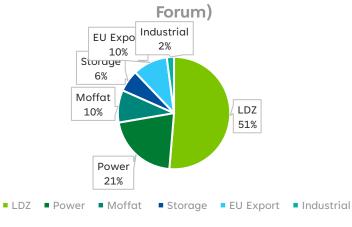
NTS Demand Breakdown

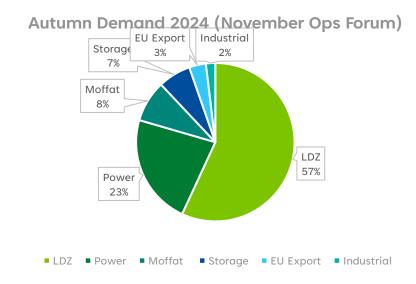


NTS Demands

Autumn Demand 2024 (October Ops





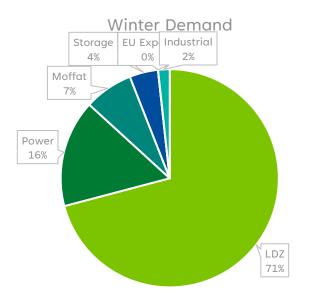


LDZ

Large increase in demand as the UK temperature drops

Power

- Dominated the power generation mix as wind & solar drop off
 Moffat
- Increase in demand linked to reduced temperatures across Northern Ireland Storage
- Storage has helped buffer impacts of market volatility for both UK and Europe
 EU Export
- Exports stall amid switching to import mode ahead of NBP winter premium Industrial
- Stable usage when compared to summer



Gas Power Generation Review of 2024

Gas's share in GB electricity supply mix was ~25%, falling from ~32% in 2023.

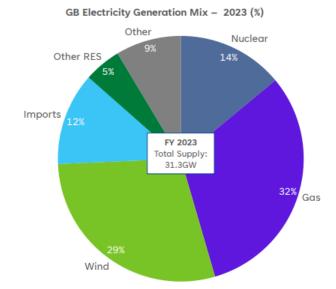
The y-o-y fall was largely driven by a jump in electricity imports and a slight growth in renewable output.

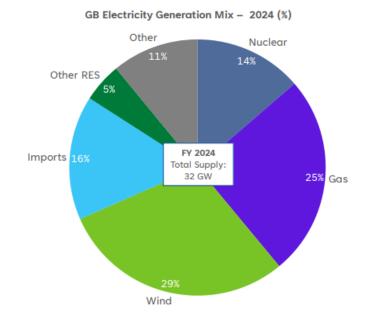
The increase in net imports was driven by multiple factors

- Strong production of the French nuclear fleet
- Better hydro stocks in Norway
- Commissioning of the Viking link to Denmark

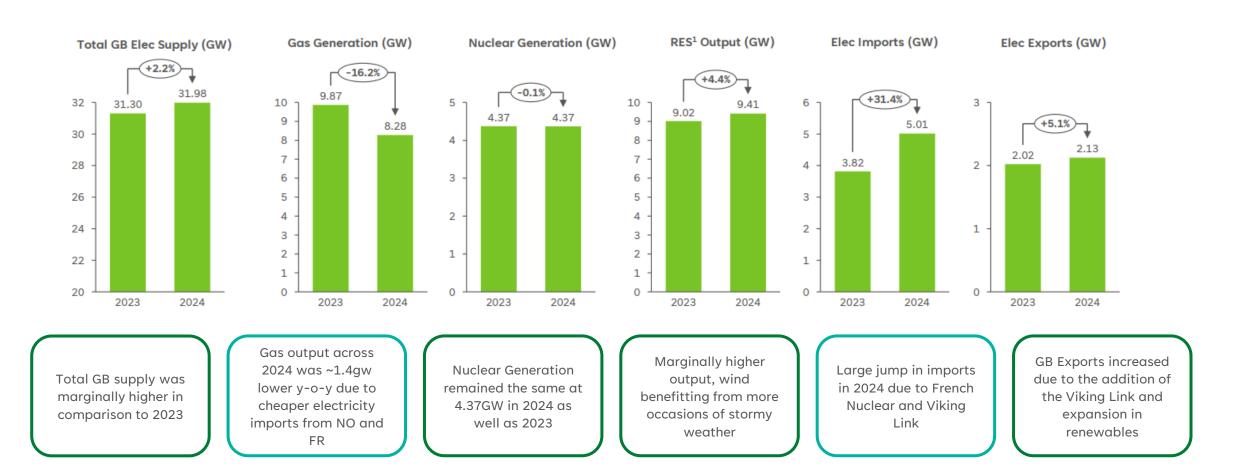
Although average gas demand was lower in 2024 vs 2023, the peak call on gas plants was higher in 2024.

 Gas generation peaked on 12th December 2024 at ~27.9GW vs ~26.5GW on 1st December 2023. This required the delivery of 105 mcm/d from our National Transmission System



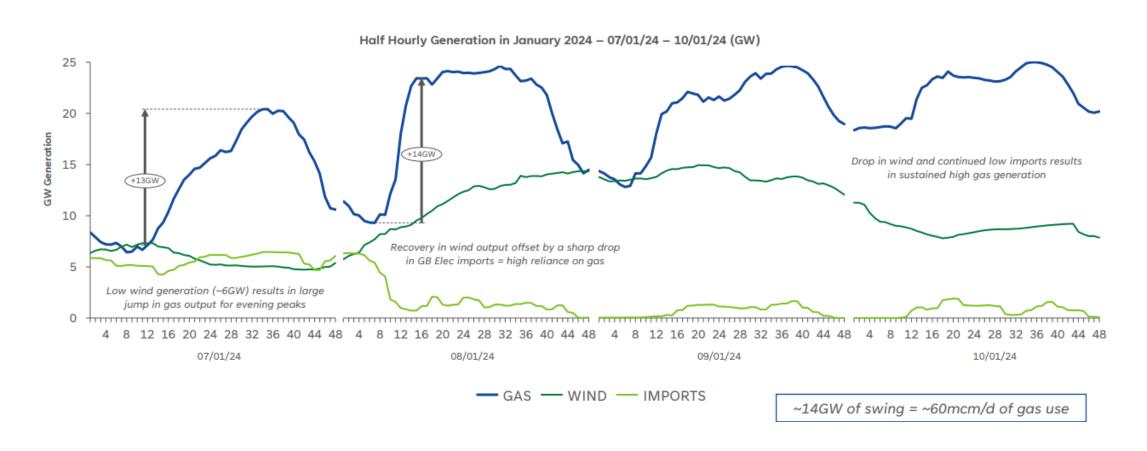


GB Energy mix comparison 2023 vs 2024

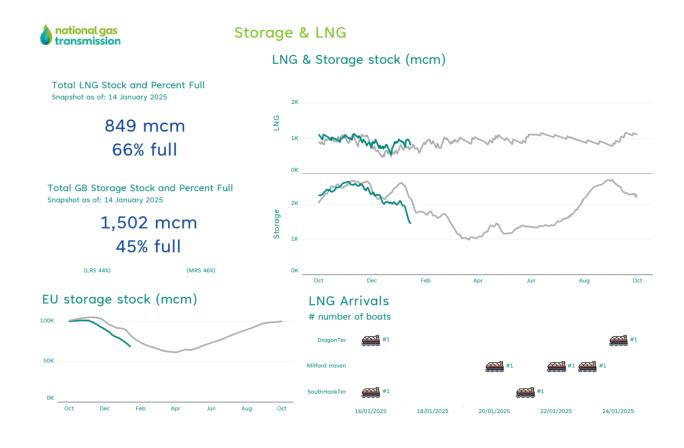


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Large Intra-day swings in gas generation during a typical winter day Illustrates the flexibility of gas plants and the network.



GB & European Storage



Storage

GB Storage at 45% fullness

EU Storage at 65.8% fullness

 Which is below the EU five-year average of 71%

LNG

14 planned/delivered cargoes for January 2025

Source: Reuters

National Control Centre Overview

Simon Hill

Commercial Lead - NCC Shift Team 6





https://bcove.video/42i7pBv

National Gas Transmission | January Ops Forum

Gemini Sustain Plus – Update

Bill Goode Senior System Delivery Lead





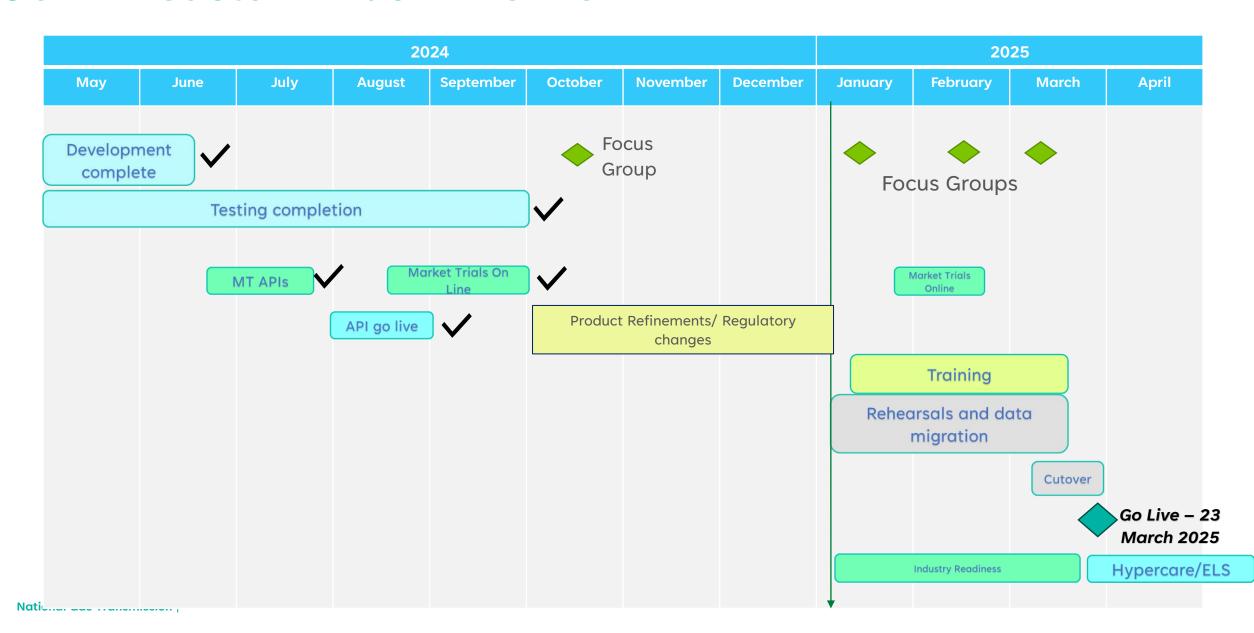
Agenda

- Programme Update and Timeline
- Market Trials
- Training, Connectivity, APIs (External Readiness)
- Future Communications
- Future Change
- Q&A

Gemini Sustain Plus Update

- We have completed some refinements and regulatory changes to the system and the final product to be implemented is now ready for Market Trials
- The programme is on track to implement as previous shared on Sunday 23rd March 2025, with the contingency date of 6th April
- We have scheduled various dress rehearsals in February and early March to practice the cutover routines
- We expect Gemini to be unavailable from 03:00 to 13:00 on Sunday 23rd of March whilst the cut over activities are undertaken. These are maximum expected times which will be firmed up after being informed by the dress rehearsals
- Further information on the cut-over weekend will be shared in the coming weeks

Gemini Sustain Plus Timeline



Market Trials

- A second round of Market Trials (MT) will be offered from the 27th January
 2025 for a period of three weeks to 14th February.
- The Market Trials scope will include APIs.
- You will not have to register to take part in Market Trials, if you have onboarded, your new ID will work in the Market Trials environment
- Whilst technical support will only be available during standard working hours, to simulate a production like environment we will be running batch jobs running continuously during the Final Market Trials phase



Switching to the New API Gateway

Please note the existing IX API Gateway will no longer be available from Gemini Go Live in March 2025.

- The New Sustain Plus API Gateway solution, has been running in parallel with the existing IX API Gateway giving you the opportunity to switch over. API credentials will have been shared with your Nominated Lead.
- There are 191 organisations that have hit the New API Gateway, but around 40 organisations still require to switch
 over to the new API Gateway. The programme will be contacting each organisations Gemini lead regarding
 migration.
- **For assistance,** please book onto one our technical surgeries please use this link: <u>Gemini Sustain Plus Technical Surgeries Tickets, Multiple Dates | Eventbrite</u>

Benefits of moving now

- ✓ Access to both IX and New API Gateway available in parallel during transition period
- ✓ Allowing to remediate any transition issues
- ✓ Service desk support and technical surgery slots are currently available to resolve issues
- ✓ API transition is a one-time activity de-risking your wider cutover to Gemini Sustain Plus March 2025

Training and Connectivity

Training

- All training modules are complete and are included in our on-line Learning Management System (LMS). These will be made available to all users from **24th January 2025** in preparation for the next Market Trials phase and for Go-Live of the upgraded Gemini
- Users will be able to complete their specific role-based modules when they access the system as well as explore the wider suite modules.

Onboarding & Connectivity

- Onboarding (Personal Accounts) Everyone should have had the opportunity to connect and onboarded to Gemini system through the Market Trials phase. If you have not completed your onboarding, we strongly encourage you to do at the earliest opportunity.
- Invites have been shared to all Gemini Users. If you haven't received the invite or not onboarded to be ready for the next Market Trials phase and for Go-Live, please email geminiengagement@correla.com

User Agreements

- For parties who access multiple BA codes, to utilise the full system functionality you will require User Agreements to be in place. Correla will be reaching out to organisations that require user agreements to be put in place ahead the go-live in March 2025.
- Please contact <u>customerlifecycle.spa@xoserve.com</u> to arrange your User Agreements, or if you would like to check you have the appropriate agreement(s).

Future Communications

Change Pack & Screen Pack: Now Available

Gemini Sustain Plus Detailed Design Change Pack with External Screen Pack was released 16th October 2024 and can be found
via the following link

Upcoming Focus Group 20th January 2025

The agenda cover:

- Details on the next Market Trials phase,
- Cutover/Go-Live information,
- Latest update on training,
- API's and business readiness activities ahead of Go-Live
- All information on all the Focus Groups can be found on the Gemini Sustain Plus webpage https://www.xoserve.com/change/investment-change/gemini-changes-overview/gemini-sustain-plus/
- Next Focus Group 17th February 2025. Invitations will be sent out in the near future.

Support Available

• If you have any queries about the topics discussed today i.e. Market Trials, Onboarding/Connectivity, Training etc, please contact Correla on: geminiengagement@correla.com

Future Change

• UNC Modification 0872s Single Sided Trade Nominations for clearing houses of gas exchanges

This change enables eligible users to elect to submit Single-sided Trade Nominations within Gemini. A Detailed Design Change Pack is currently out for consultation. The change will be delivered in parallel with Sustain Plus go-live.

Change to EIC codes within Gemini

National Gas has raised a change to update its Energy Identification Code (EIC) in the Gemini system. Detailed analysis is still to be completed, but based on initial analysis, the proposed change will require a data fix in Gemini and could have implications on 2 industry APIs. Further details will be shared in due course, but this change is not expected to go-live until the summer of 2025.

Any Questions

Reminder: please provide any feedback via geminiengagement@correla.com



Project Union: East Coast Hydrogen

Ed Gilford Senior Hydrogen Development Engineer









The feasibility stage completed in September 2024, delivering the following high-level outputs with a wide-range of sub-deliverables:

Phasing Strategy and Priority

Where in the country to start and finish with the build out of the hydrogen backbone.

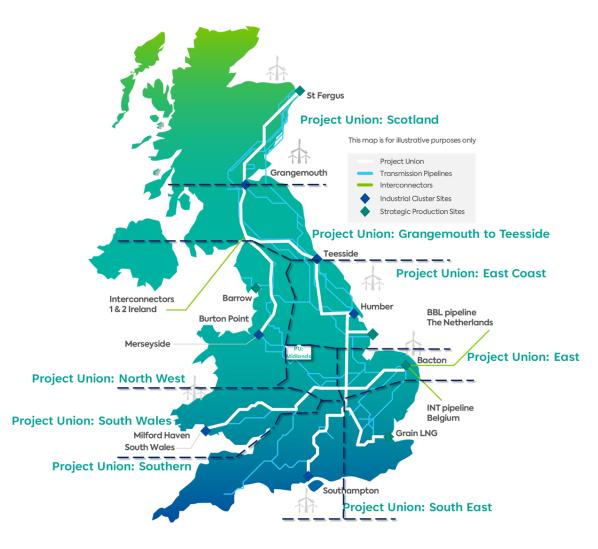
9 geographical regions have been identified (see map)

Pre-Front End Engineering and Design (pre-FEED)

The size and shape of the required hydrogen backbone with options for repurposing pipelines and where new pipelines may be needed

Hydrogen market enabling activities

Evolution of the market and regulatory frameworks for hydrogen and continued stakeholder engagement



Phasing Strategy

Full hydrogen value chain established across production, storage and demand

Vast renewable energy for green hydrogen production and hydrogen export potential

Cluster demand and linking North to South providing access to storage.

Large storage potential vital to a hydrogen economy



ProjectUnion: East Coast Hydrogen





There are 122 East Coast Hydrogen Consortium members who have signed Letters of Support and/or provided H2 forecasts

Demand

- 424 gas consuming sites investigated
 - Industrial, Commercial and Power
 - 191 sites expected to switch.
 - 156 sites, 53 companies, confirmed with forecasts

Production

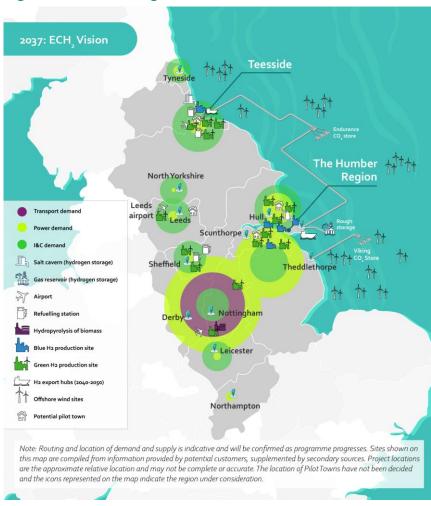
22 projects have provided forecasts

Storage

4 sites have confirmed intention to store hydrogen

ProjectUnion: East Coast Hydrogen

The East Coast region aims to be a foundation upon which the UK can build its hydrogen economy, delivering decarbonisation, resilience, energy security, and green economic growth.



2037 Forecasts

Region	Demand - TWh	Production - TWh
Teesside	5.8	27.45
Yorkshire	6.08	2.66
North Humber	6.03	31.98
South Humber	13.77	17.97
Nottinghamshir e & Derbyshire	28.03	2.95
Total	59.71	83.00

National Gas Transmission | 30

Repurposing Assessment





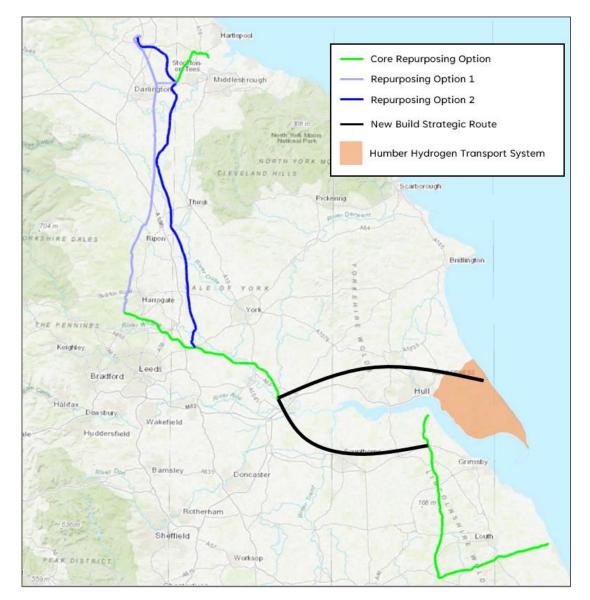
Methane pipeline repurposing assessments (Desktop studies)

- Network analysis of methane network capability to identify pipelines can be released for repurposing to H2
- Production of a Decision Support Tool (DST) to analyse existing asset data
- Customer engagement

Next steps:

 Hydrogen specific In-line inspection of shortlisted repurposing options

Preferred Strategic Option





Hybrid Options

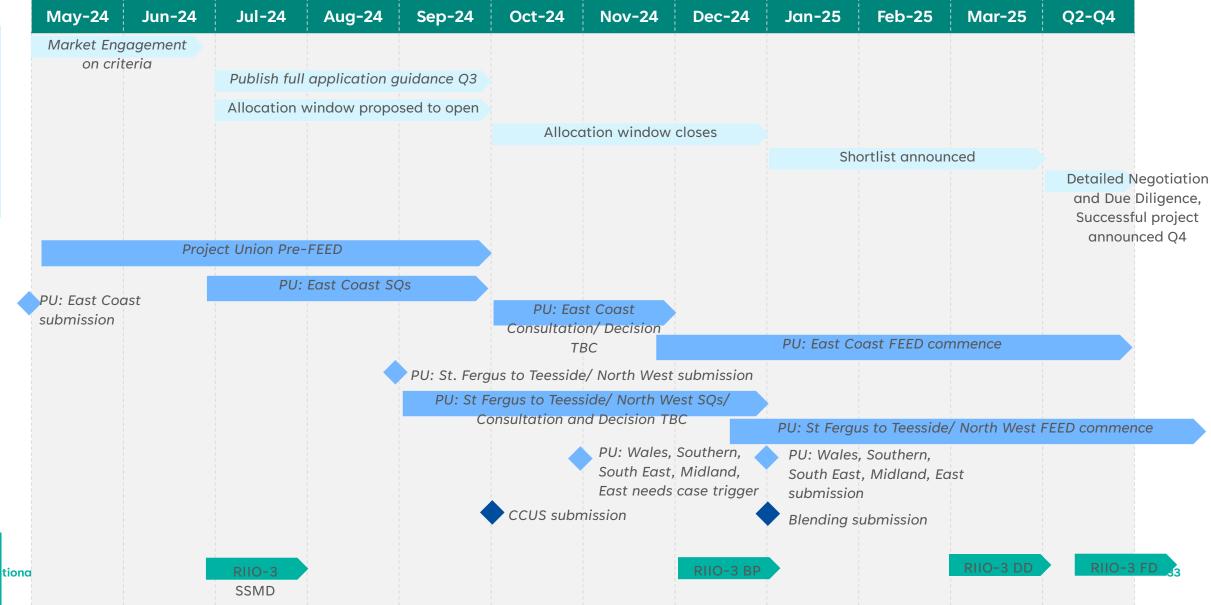
- 13 strategic options assessed to connect repurposed sections and identified connections
- Going around the Humber preferred option

Repurpose Length	New Build Length
~360km	~180km

Early FEED:

- Refinement and backcheck of routing options for preferred strategic option
- Refinement of construction phasing

ProjectUnion: Timelines



Thank you

You can find out more and get in touch:



Edward.gilford@nationalgas.com



nationalgas.com



National Gas Transmission



RIIO-3

James Ganendra Senior Stakeholder Manager

Chipego ChangulaSenior Asset Manager





National Gas have published our business plan for RIIO-GT3

•••

000

£3.94bn

in baseline investments

12

000

000

ambitious commitments to our customers

£1.36bn

reserved for Uncertainty Mechanisms £9.89

annual cost to the average domestic consumer



James Ganendra Senior Stakeholder Manager How are we regulated?



Where can you find our plan?





Read our Board Assurance Statement

https://www.nationalgas.com/about-us/how-we-are-regulated/preparing-our-rijo-gt3-business-plan-2026-2031

period, RIIO-GT3, will run from April 2026 until March 2031. We've now submitted our RIIO-GT3 Business Plan to Ofgem. You can read our Executive Summary, our full plan, and visit our

library for everything you need to know about our plans for the 2026 - 2031 price control

We will deliver value to our customers beyond business-as-usual operations



Secure and resilient supplies



Meeting our critical obligations every hour of every day



Ensuring world-class safety levels for our workforce and the public



Delivering a resilient network fit for the future



Ensuring our network is resilient to climate change



Keeping our critical systems secure



Transforming our activities through IT and data

Infrastructure fit for low-cost transition to net zero



Leading the energy transition to clean power and net zero



Caring for our environment and our communities



Investing in our people and capability for the future

High quality of service from regulated firms



Drive relentless performance and service



Operating the system safely, reliably and efficiently



Innovating now and for future generations

System efficiency and long-term value for money

Considered through our efficient costs and better data and technology

Themes in the RIIO-GT3 Plan

Redundant Assets

Interventions to decommission redundant assets and sites where there is no future need.

Net Zero

Interventions to mitigate the impact on the climate from our own operations

Asset Health

Interventions to address known defective assets, forecast defects and stabilise network risk

Threats

Interventions protect our assets from a range of threats



Emissions Compliance

Interventions to ensure compliance with Industrial Emissions Directive – including Medium Combustion Plant Directive by 2030.

Network Capability

Interventions to ensure the network is ready to meet changes in flow patterns over time

Network Interference

Interventions to mitigate the impact on our network from third party interference, including natural causes.

Resilience

Investments to improve resilience in specific locations on the NTS

We have rigorously tested our plan to ensure deliverability, and we have constrained our submission as a result



The starting point for our CAPEX delivery is our **Asset Management Plan**, a 10-year rolling plan optimised to balance cost, risk and performance decisions.

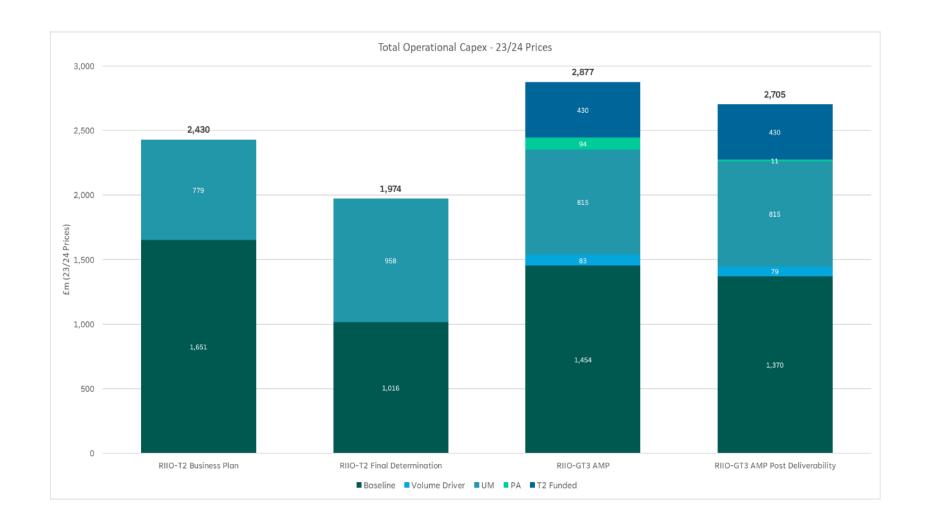
We have a **defined set of criteria** to help us make decisions about our assets, which utilise our engineering excellence and reflect the expectations of our **stakeholders**, **our duties and obligations**.

Our key principle is to maximise the volume of work delivered during available outages. We have bundled and scheduled work around legislative and safety-critical work requiring substantial outages, using our Copperleaf optimisation tool and NARMs methodology.

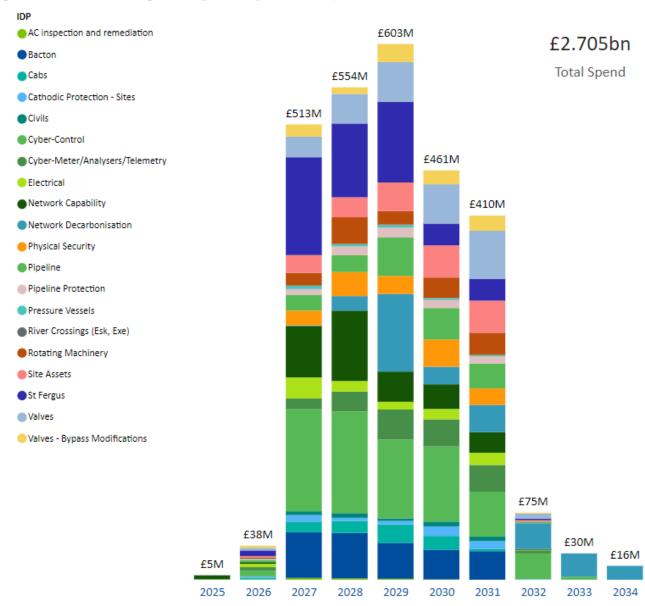
We developed a **Strategic Workforce Plan** to provide the capability we need, we have **tested the capacity of our supply chain**, and we will improve the ways we work by **leveraging IT and digitalisation**.

The activities within our business plan must be funded to an appropriate level, with the agreed rate of return reflecting the level of risk associated with the capital our investors make available.

RIIO-GT2 to RIIO-GT3 Comparison



Our RIIO-GT3 Plan





Our business plan has been co-created with our customers and stakeholders

Customer 1-1s Learnings from RIIO-1 **Strategy Workshops** and Coalitions Shaping Testing **Supplier Summit Business Plan Overview &** Resilience **Shaping the Future Incentives Consultations** Summit with and **Shaping the DESNZ**, Ofgem **Future Lite series Business Plan** and NESO Walkthroughs Validating Advocacy Deliberative **End-User Forums** Acceptability

Business Plan

Deep Dive Webinars

Testing and

Willingness to Pay

RIIO-T2 Engagement

200+

insights collected through Business Plan shaping and testing

2500

consumers surveyed in acceptability testing

3000+

engaged through Shaping the Future

Aligned with our Independent Stakeholder Group, we have set ourselves focus areas for engagement

Aligning with consumer priorities...

"I want the drive to net zero to be at the core of all National Gas' initiatives"

"I want the network to operate safely, reliably, and efficiently, as a foundational standard of service"

"I want an accurate and affordable energy bill"



To increase the **breadth** of our engagement

To build cross-industry collaboration





To deliver proactive, **two-way** engagement

To deliver outcomedriven engagement

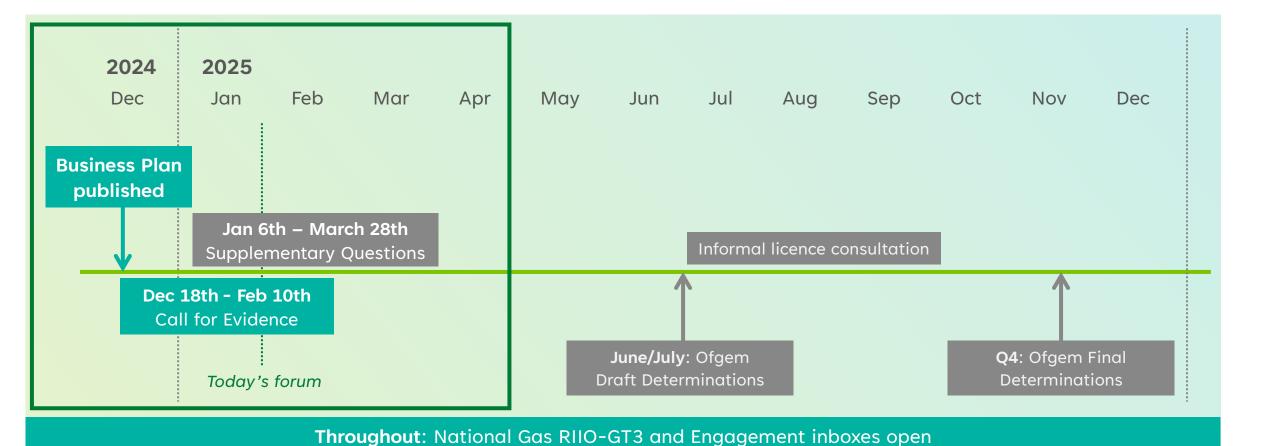


...and reflecting on our **engagement to date.**

We would greatly appreciate your continued support for our RIIO-GT3 Plans







If you have further questions about our RIIO-GT3 Plan and/or Stakeholder Engagement for 2025

please reach out to <u>box.RIIOGT3@nationalgas.com</u> or <u>engage@nationalgas.com</u>





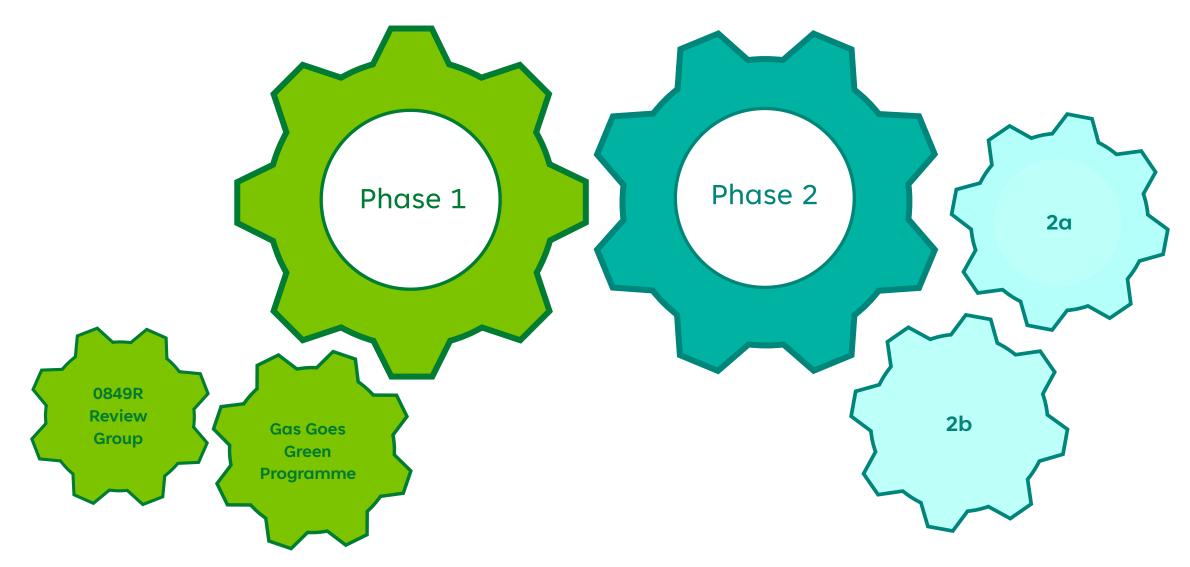
Hydrogen Blending Implementation Programme

Danielle Fleet

Senior Market Development Lead



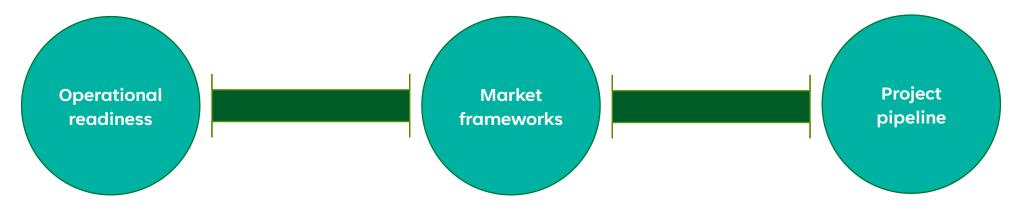
Project snapshot



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Phase 2a

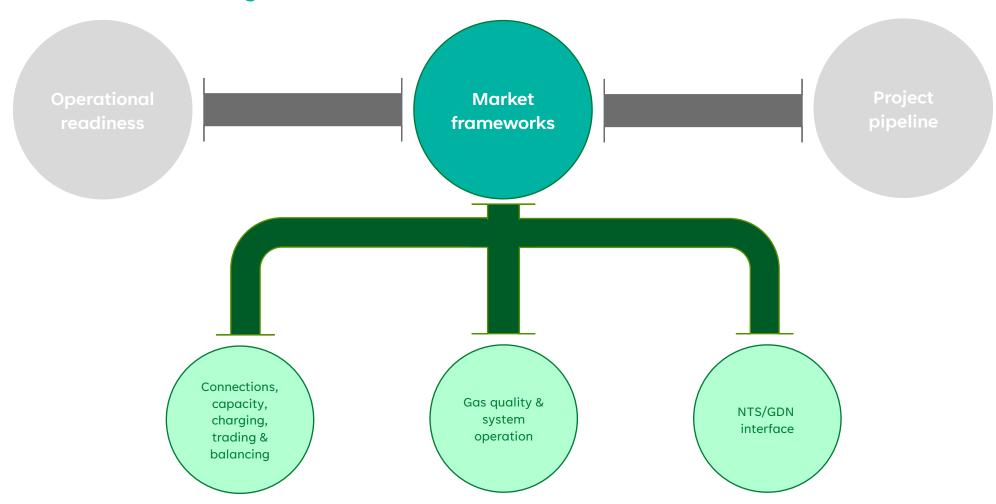
Commercial framework changes



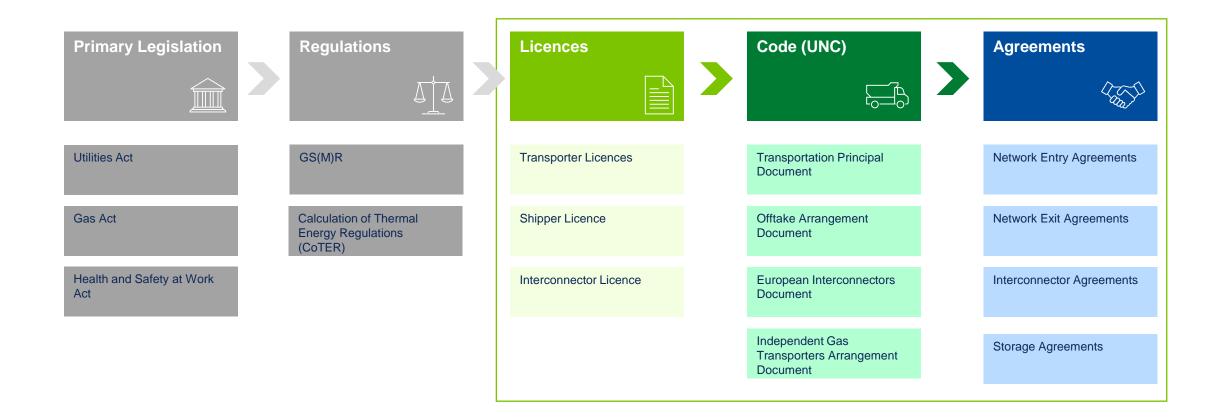
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Phase 2a

Commercial framework changes



Scope of the Market Frameworks workstream



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Strategic outcomes for delivering blending

Primary outcomes















Design principles

Design principles



Utilise existing gas market arrangements where possible



Deliver market frameworks that are predictable and enduring, within the limits of existing primary legislation



Optimise total GB blending capacity, whilst enabling the investability of the model for hydrogen producers



Connections and capacity allocation process that avoids undue discrimination, whilst enabling efficient and economical operation of the networks



Transparent processes for all gas transporters with consistency across GDNs

Outcomes

Uphold the safety and security of supply of the gas network



2 Support the growth of GB hydrogen production capacity and maximise wider system benefits



Limit costs and disruption to users of the gas network in enabling connection and transportation of hydrogen blended gas



Fair and transparent processes for connecting hydrogen production to the gas network



Decarbonisation of GB gas demand



Support networks' capability and infrastructure for delivery of 100% H2 networks



Decision Framework

1

Uphold the safety and security of supply of the gas network

2

Support the growth of GB hydrogen capacity and maximise wider system benefits

3

Limit costs and disruption to users of the gas network in enabling connection and transportation of hydrogen blended gas 4

Fair and transparent processes for connecting hydrogen production to the gas network 5

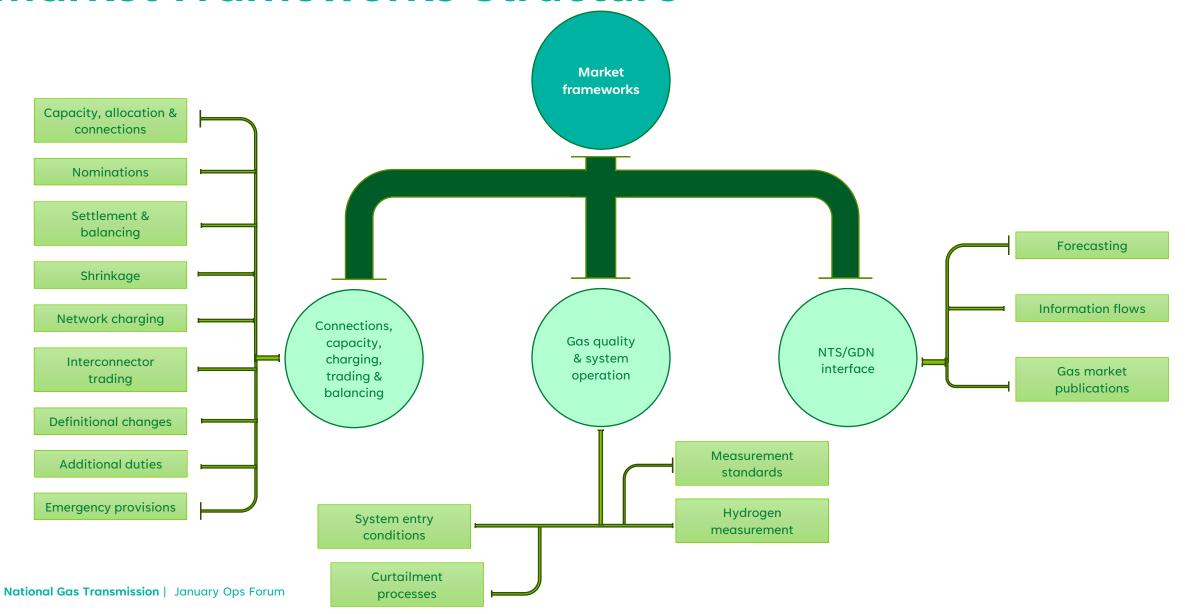
Decarbonisation of GB gas demand

6

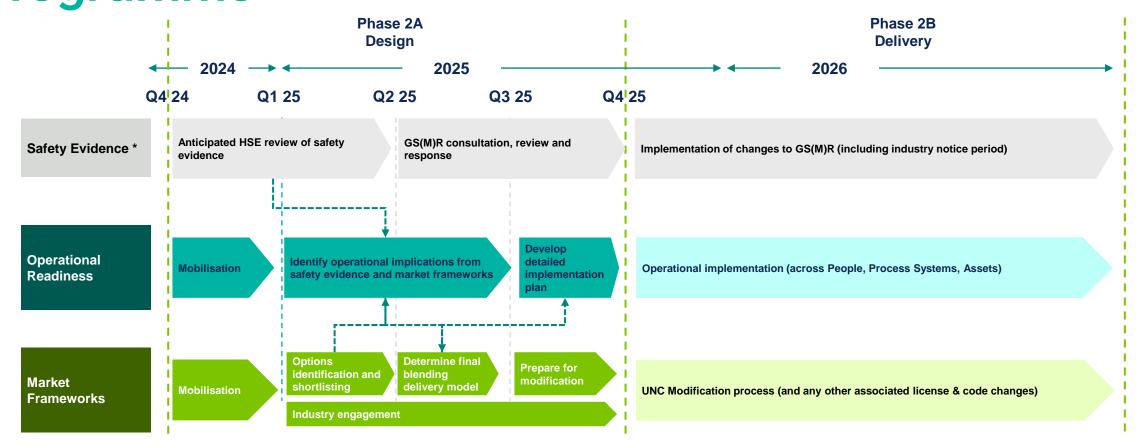
Support networks' capability and infrastructure for delivery of 100% H2 networks

	Design principle	Assumptions & implications			
Design boundaries	A: Utilise existing gas market arrangements where possible	Ensuring consistency with Gas Act provides a boundary limitation for any changes, but otherwise all UNC changes will be considered where these support market functioning			
	B: Deliver market frameworks that are predictable and enduring, within the limits of existing primary legislation.	 Hydrogen producers will not become UNC counterparties, so some divergence in arrangements over time is likely (but aim is to limit these) Existing precedents for cost allocation assumed – i.e. gas transportation under RIIO; all other costs likely to sit under HPBM / HTBM (costs for end-users out of scope) 			
Design intent	C: Optimise total GB blending capacity, whilst enabling the investability of the model for hydrogen producers	 Optimising capacity means ensuring smaller producers cannot sterilise capacity of potential future large-scale production, to ensure potential value of blending is realised Likely no capacity guarantees for hydrogen producers – alternative mitigation to sterilisation risk is likely to be 			
	D: Connections and capacity allocation process that avoids undue discrimination, whilst enabling efficient and economical operation of the networks	required for producers (allocation process OR alternative financial mechanism) • Gas Act provides some scope for strategic approaches to allocation (to ensure efficient and economical operation of the networks) – these will be considered to reduce sterilisation risk			
Design Governance	E: Transparent processes for all gas transporters with consistency across GDNs	Aim to reduce divergence where possible – but it is acknowledged some will be inevitable (especially at NTS vs LDZ level)			

Market Frameworks Structure



Overview of the Blending Implementation Programme



^{*} Safety evidence timeline assumed; not a critical dependency for delivery of Operational Readiness and Market Frameworks workstreams

General Updates

Rachel Hinsley

Operational Liaison and Business Delivery Manager







Gas Data Portal Update

Gas Operational Forum

January 2025



Gas Data Portal SOAP API URL Change

Key Date: 31st January 25

Throughout December 24 and January 25, we have been working on moving our technology from the **National Grid** domain to the new **National Gas** domain

This change impacts Users who are using our **SOAP API services**. From the **31**st **January**, our legacy **National Grid SOAP API** URLs will no longer be working.

A new **National Gas SOAP API** URL is now available. All **system code** needs to be updated to reflect the new URL ahead of the 31st January 25, to enable you to continue to receive our data feeds.

To support this change, we have the created a **Technical Guide** to outline the key changes. For access to this guide and more information please click here: https://data.nationalgas.com/apis/data-items

Please Note: There will be no impact to the day-to-day functionality of the Gas Data Portal or any of the data it contains, and you will continue to be able to use the portal as usual throughout the migration period.

If you have any questions or require support, then please contact us at box.operationalliaison@nationalgas.com



Gas Data Portal Updates

1

Search Everywhere Coming Soon!

- We will imminently be launching our new Search Everywhere feature.
- This feature is to make our data more discoverable across the Portal
- Provides the ability to searches across all pages and navigating users to the relevant sections



national gas transmission

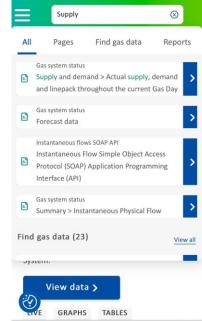
data portal

and people that want to learn more about gas transmis-

2

Mobile Device Optimisation

- We have been working on incrementally improving the mobile version of the Gas Data Portal.
- As we progress through our Product Roadmap, we will be making improvements to the user experience on the Mobile Devices (includes mobile and tablets)



Gas Data Portal Sign up to the User Community



We have created a targeted User Community for the Gas Data Portal, to allow us to keep you updated with all Gas Data Portal communications.

This will enable you to have a voice on upcoming changes and also be informed about all Gas Data Portal related activities.

Updates will include:

- Transformation Project Progress Updates
- Early access to features
- Upcoming planned outages
- High priority Incident updates

Click here for the Promotion Video

Please sign up via the QR Code on screen or via the link so we can keep you updated on future developments. Also share with any relevant Customers.



2025 Operational Forum Programme

1 Birdcage Walk

The forums will be hybrid via Microsoft Teams and at the IMechE, 1 Birdcage Walk as shown:

London SW1H 9JJ

















Jan 25tl	l Feb	Mar 13th	April 17 th	May	Jun 12th	July 17 th	Aug	Sep 11th	Oct 30th	Nov 20th	Dec
Clermor & Onlin	V	Online Only	One Birdcage Walk & Online	x	Online Only	One Birdcage Walk & Online	Х	Online only	One Birdcage Walk & Online	Online Only	Х
Future Focus			New Forum Launch			Three Molecule special			Winter Focus		



Online: https://ngt.ticketbud.com/gas-operational-forum-march-online--f07e53c22c9f



CSAT/SSAT Explainer

Gas Operational Forum

January 2025



We would like to put you forward for a short survey to gather your feedback on this event

The survey will take around 5 minutes, Your views are very important to help us:

- 1. Understand how we did
- 2. Inform how we can improve for future events

What to expect:

All attendees will be <u>emailed by BMG</u> our independent survey provider with a link to a survey in the coming week.

Please drop an email to <u>rachel.hinsley@nationalgas.com</u> if you wish to opt out.

£10 will be donated to Barnardo's charity for each survey response

Barnardo's is a charity which helps improve quality of life for children and young people in the UK for example tackling child poverty

Q&A





Thank you



Information For Reference



How to contact us

	Operational Liaison Team	Box.OperationalLiaison@nationalgas.co m
Rachel Hinsley	Operational Liaison Team Manager	Rachel.Hinsley@nationalgas.com
Craig Shipley	Snr Operational Liaison Officer	Craig.Shipley@nationalgas.com
Charlotte Gillan	Snr Operational Liaison Officer	Charlotte.Gillan@nationalgas.com
Niall Finn	Snr Operational Liaison Officer	Niall.Finn@nationalgas.com
Gary Barnes	Snr Technical Assistant	Gary.barnes@nationalgas.com

If you have any Operational enquiries or would like a liaison meeting, please get in touch.



National Gas Website: Gas Transmission | National Gas

Operational Liaison Meetings 2024

- We are planning our programme of **Operational Liaison meetings** for 2024.
- These meetings are offered to all Operators connected to the NTS to cover a range of Operational topics including...

Maintenance Plans

Gas Quality

Pressures

NTS Operation

- We have received some great feedback about these from our 2023 round of meetings (20 in person) and are currently planning these out based on level of recent engagement. If we didn't have a meeting in 2023 you are top of our priority list for 2024 and we will be getting in touch.
- These meetings can be held at your site if appropriate, or we can host at Warwick.

If you would like a meeting with us, please get in touch.





Key resources available to you

Gas Ops Forums

Throughout the year, we hold regular Operational forum meetings. This forum aims to provide visibility and awareness for our customers and stakeholders to help understand and discuss the operation and performance of the National Transmission System (NTS). We also proactively invite any suggestions for operational topics that would promote discussion and awareness.

Activity	Link
Registration for Gas Ops Forums and Gas Ops Forum materials	www.nationalgas.com/data-and-operations/operational-forum
Subscription to distribution list	Please email: box.operationalliasion@nationalgas.com
National Gas Transmission Website	www.nationalgas.com
Maintenance Planning	www.nationalgas.com/data-and-operations/maintenance

Modernising energy networks

Ve're modernising data from

the energy networks, bringing

together gas and electricity

networks to address data



The monthly Britain's
Gas Explained
information is on
LinkedIn; this is
information showing
the key role Gas plays
that is easy to digest
for all; especially end
consumers

issues, access new datasets and identify opportunities in existing datasets.

The Energy Data
Request Tool to
request the
publication of
any data is
available here:
Microsoft Forms
Link

https://www.nationalgas.com/data-and-operations/transmission-operational-data#tab-1