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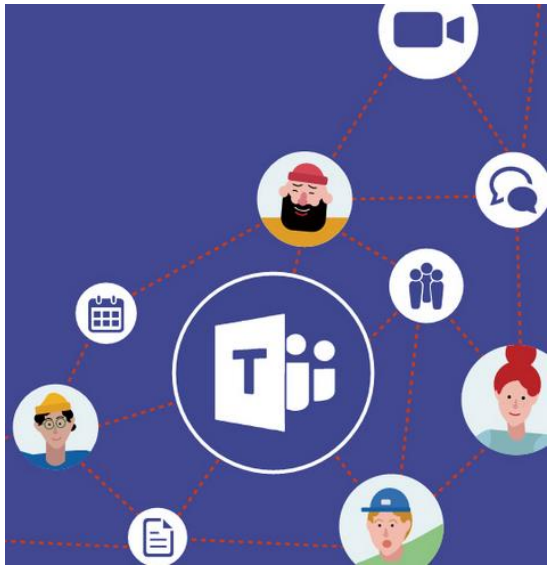
Housekeeping for Forum



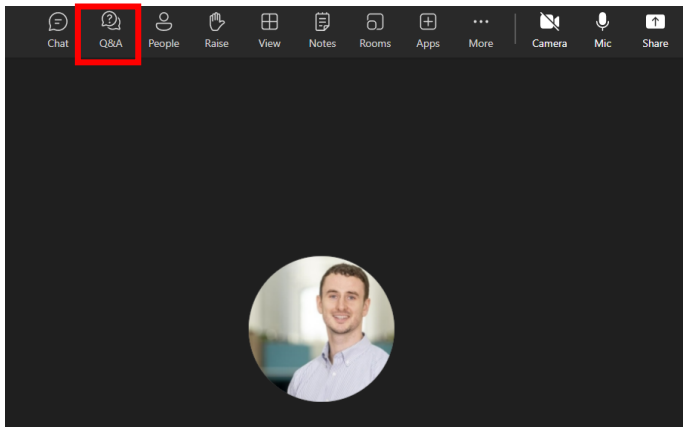
- **For Microsoft Teams participants;**

- Attendees will be automatically muted on dial-in and cameras will be unavailable.

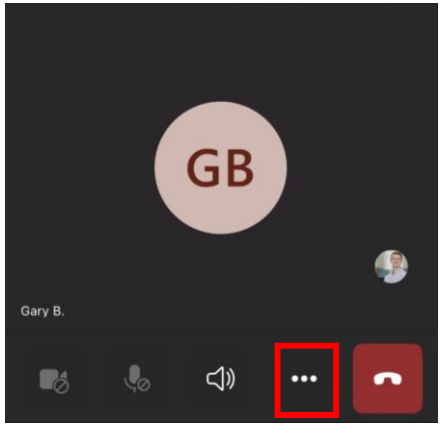
- We have included some time to answer questions following the presentations.

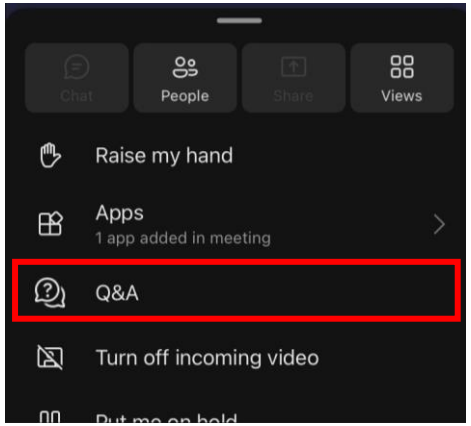
- You can ask questions **via Teams – Q&A**

Laptop



Mobile





Today's agenda

National Gas Energy Forum *1000 – 11:30*	
Max Chapman, Operational Updates	10:02
Nicola Lond, Laura Loughran & Kirsty Appleby, UNC Modification Update	10:12
Alex Potter, Emergency Exercise Glacier	10:27
Helen Blundell, Exploring the impact of Innovation	10:35
Bill Goode, Gemini update	10:50
Alan Stephen, Blending update	11:00
Sam Beasley, Gas Quality Data Portal Initiative	11:15
Alison Tann, Capacity Auctions errors guidance	11:20
Max Chapman, General updates & close	11:25

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Max Chapman

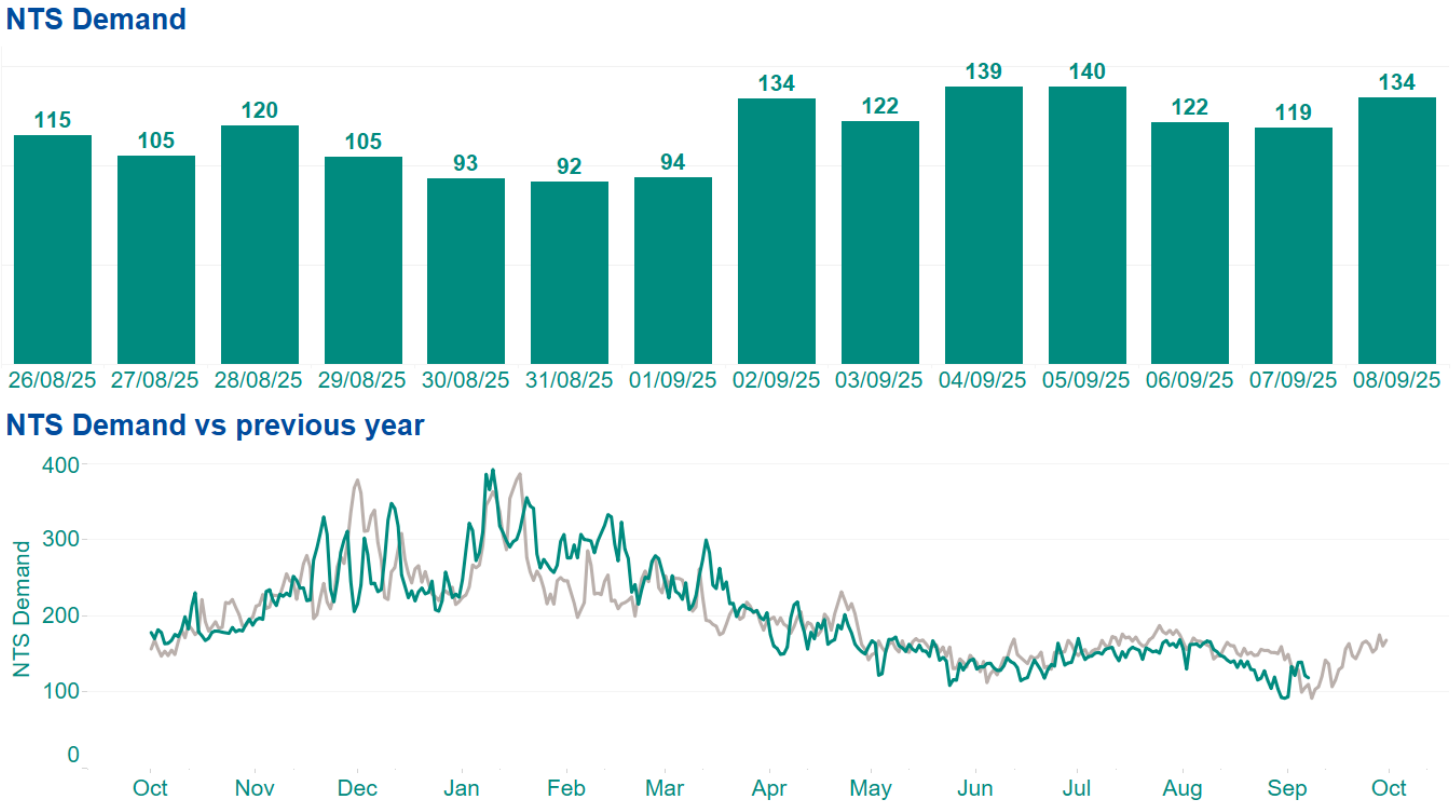
Ops Liaison & Business Delivery Manager
National Gas

Introduction : Max Chapman

- Taking over from Rachel while she is on Maternity leave as Operational Liaison & Business Delivery Manager

- Started with company as a Mechanical Apprentice (2013 – 2017)
- Operations Technician (Mechanical) at Hatton Compressor Station (2017 – 2020)
- NCC (2020 – 2025)
- Looking forward to meeting you all over the next year at NGEF and operational visits

NTS Supply & Demand Overview



NTS Summer Averages

	2024	2025
June	142	137
July	162	145
August	146	138
Sept (to 10/9)	119	124

Lowest Demand
=91.9mcm (31/08)

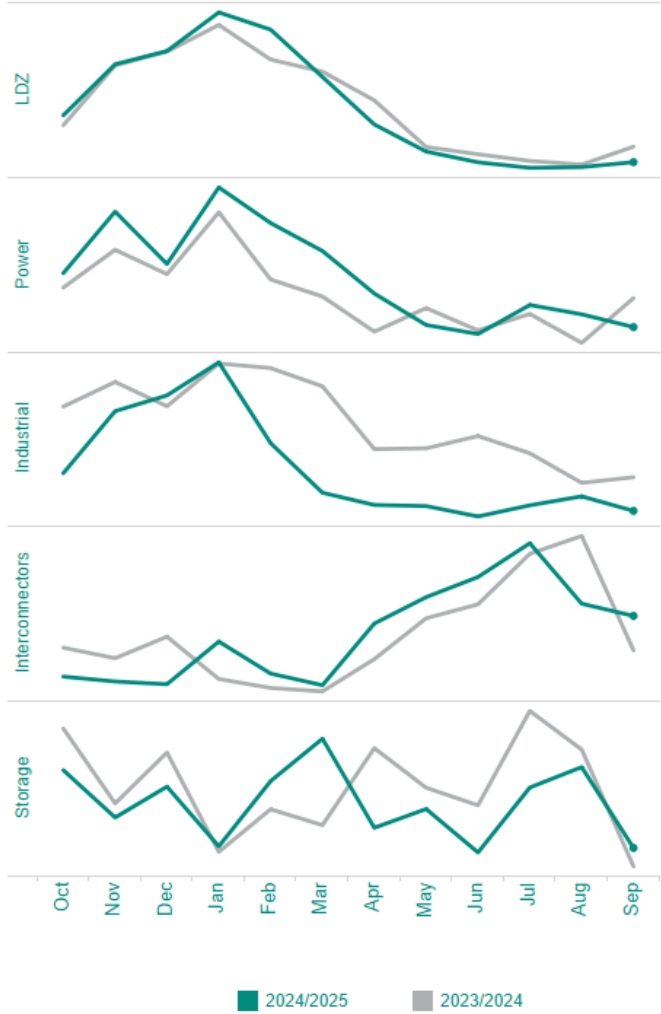
NTS Demand Breakdown

Demand Categories - Last 14 days

End of day values (mcm)

	26/08	27/08	28/08	29/08	30/08	31/08	01/09	02/09	03/09	04/09	05/09	06/09	07/09	08/09
LDZ	45	44	47	47	40	39	48	50	53	55	50	40	41	52
Power	28	28	26	28	14	14	15	35	18	30	34	12	13	36
Industrial	2	2	2	2	1	2	1	2	2	2	2	2	2	2
EU Export	24	16	31	14	16	18	15	21	26	33	36	37	38	29
Moffat	13	12	13	12	9	9	11	15	13	13	12	9	9	13
Storage	1	1	0	0	9	5	0	6	8	3	3	17	11	2

Monthly average end of day



All values shown are volume in millions of cubic metres per day (mcm/d)

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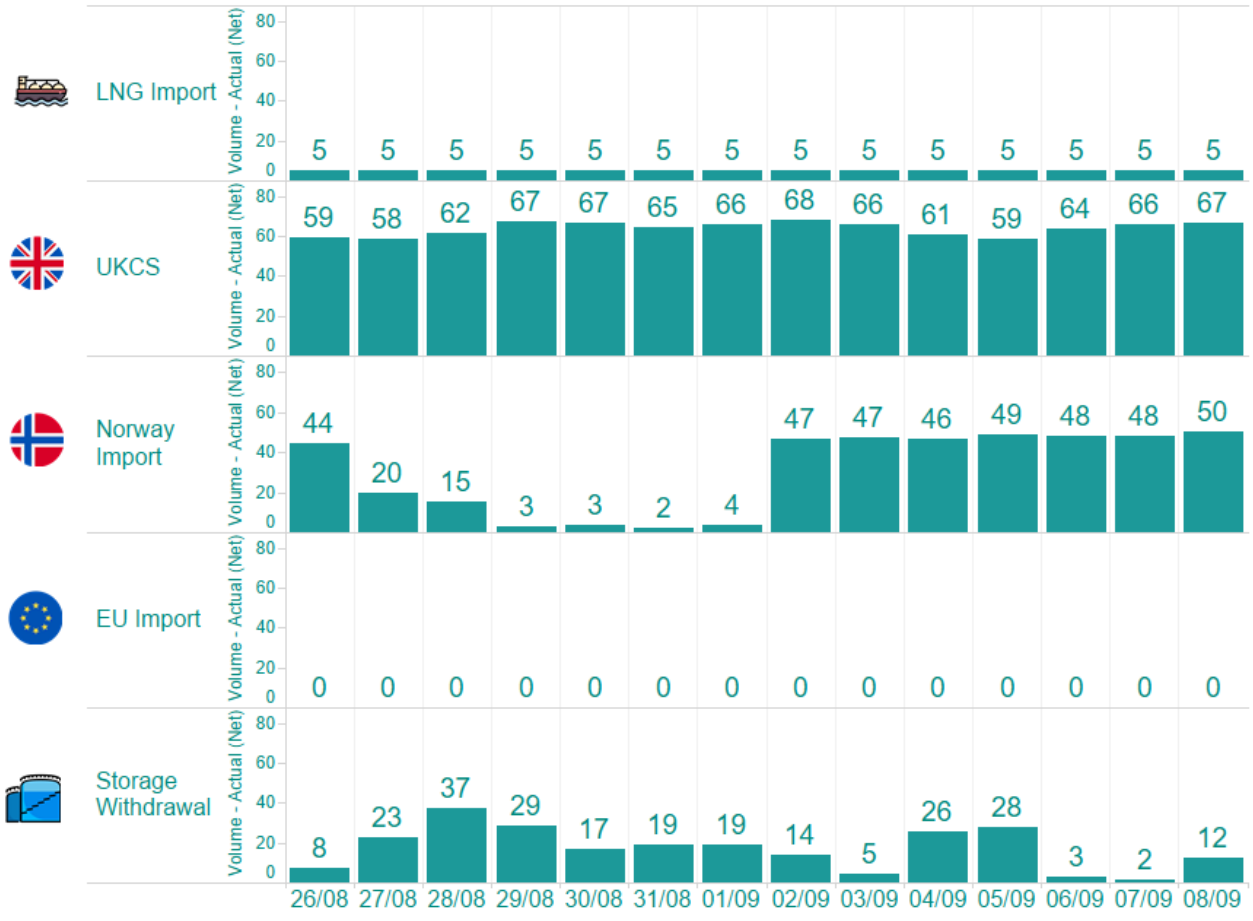
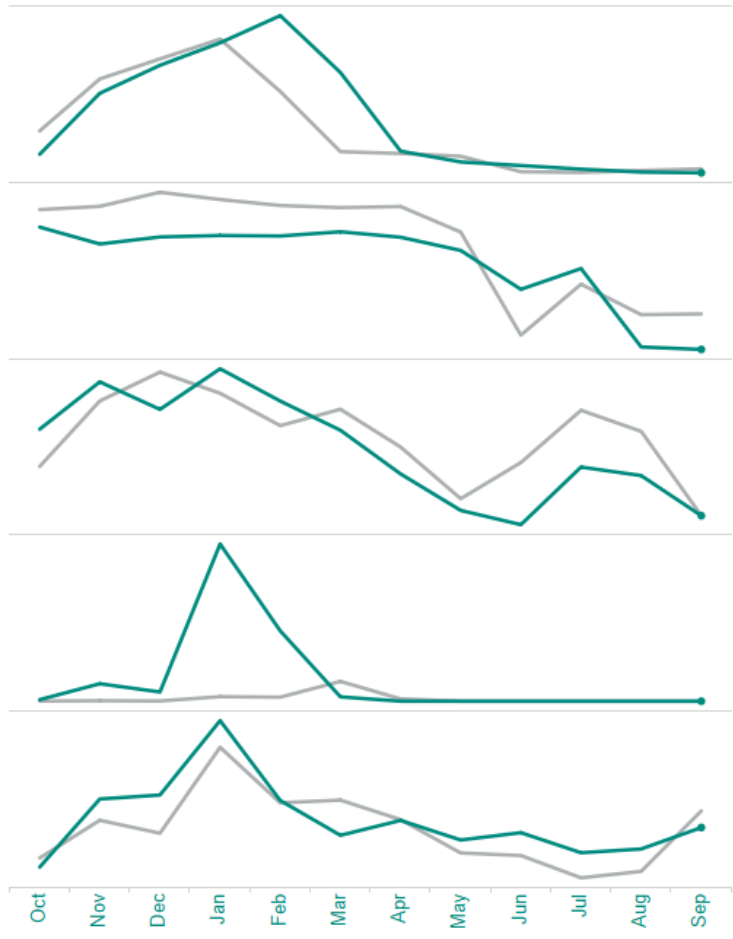
NTS Supply Breakdown

Supply Categories - Last 14 days

End of day values (mcm)



Monthly average end of day



All values shown are volume in millions of cubic metres per day (mcm/d)

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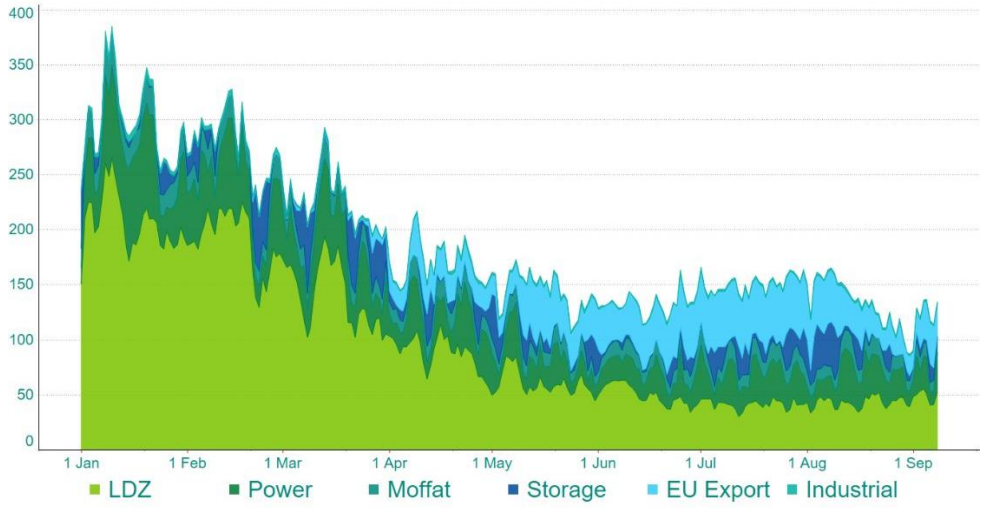
NTS Summer Demand Review

UK Demand 2025 (mscm/d)



July to Sept Demand Comparison

	2024	2025	Diff
LDZ	50.3	45.5	-9.5%
Power	25.1	28.4	+13%
Storage	18	13.6	-24.4%
Moffat	12.7	13.2	+3.9%
EU Export	45.8	40.1	-12.4%
Industrial	3.4	2.7	-20.6%
Total	155.3	143.5	-9.2%

LDZ

- Consistently higher seasonal temperatures vs 2024

Power

- Increase driven largely by reduction in wind generation

Storage

- LRS storage level main contributing factor

Moffat

- Minor increase in seasonal demand

EU Exports

- Corresponding with EU storage stocks, which were ahead of schedule in 2024

Industrial

- Continued reduction of 20% for consecutive years

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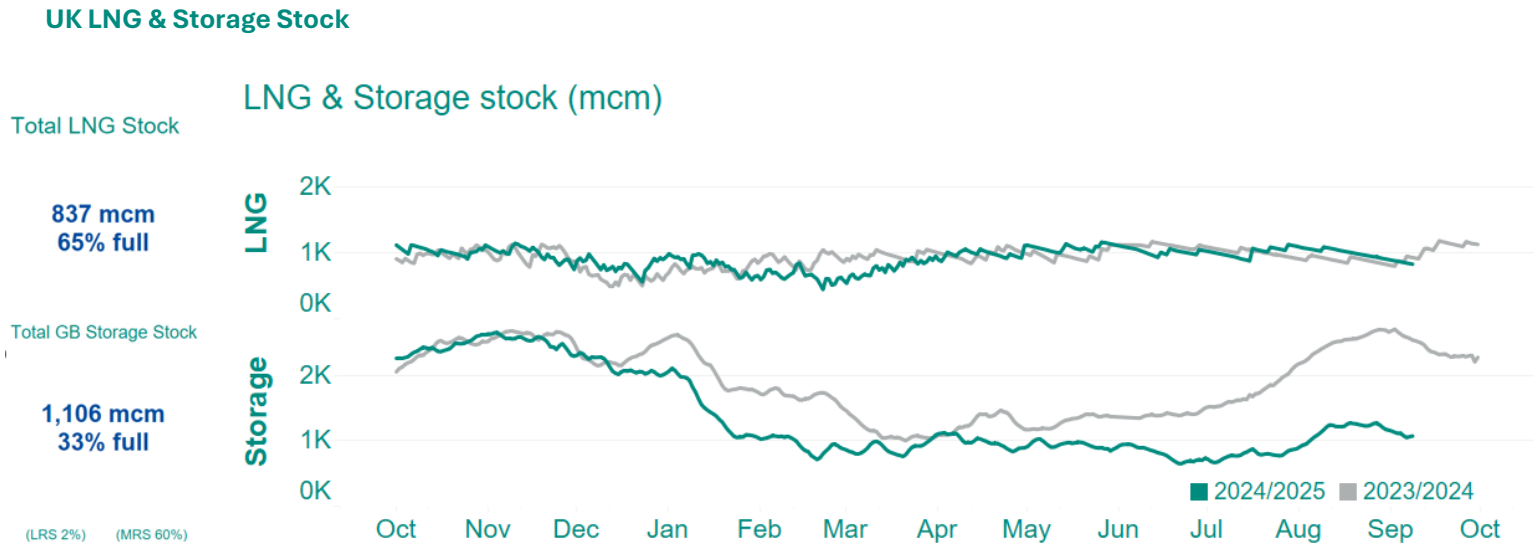
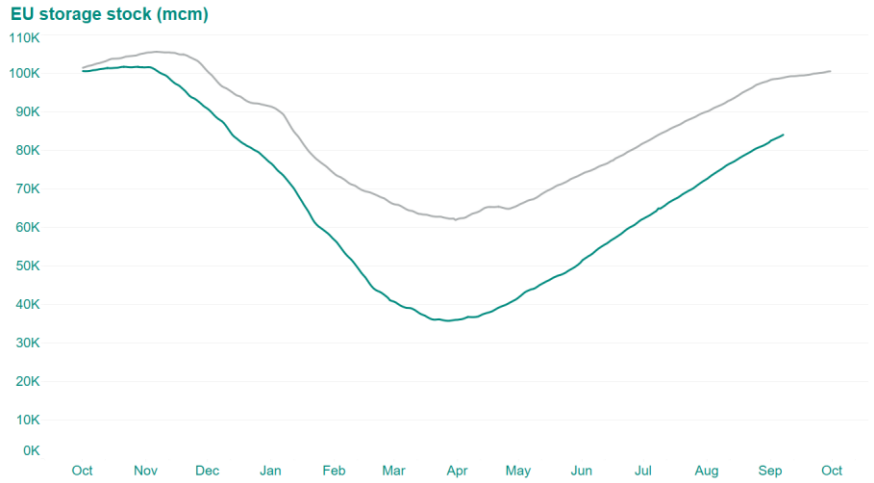
UK & EU Storage Levels





LNG

- Continued high Asian LNG price, 1 boat currently due.

UK Storage

- Key differentiator for 2025 is the reduction in UK LRS storage stock, this time last year this was at 70%.

EU Storage

- Stocks are slightly below last year, indicating increased confidence. In 2024, EU reached 90% level 2 months ahead of schedule.

Data as of beginning of gas day 08/09/2025
All values shown in million cubic metres (mcm)

Summer Overview

NTS Compression running hours

- 2206 hours Summer 2025
- 2208 hours Summer 2024

NTS Compression free days

- 39 days 2025
- 17 days 2024

10.7% of NTS Pipelines outages completed this year so far (=817km)

0 constraints requiring use of commercial tools

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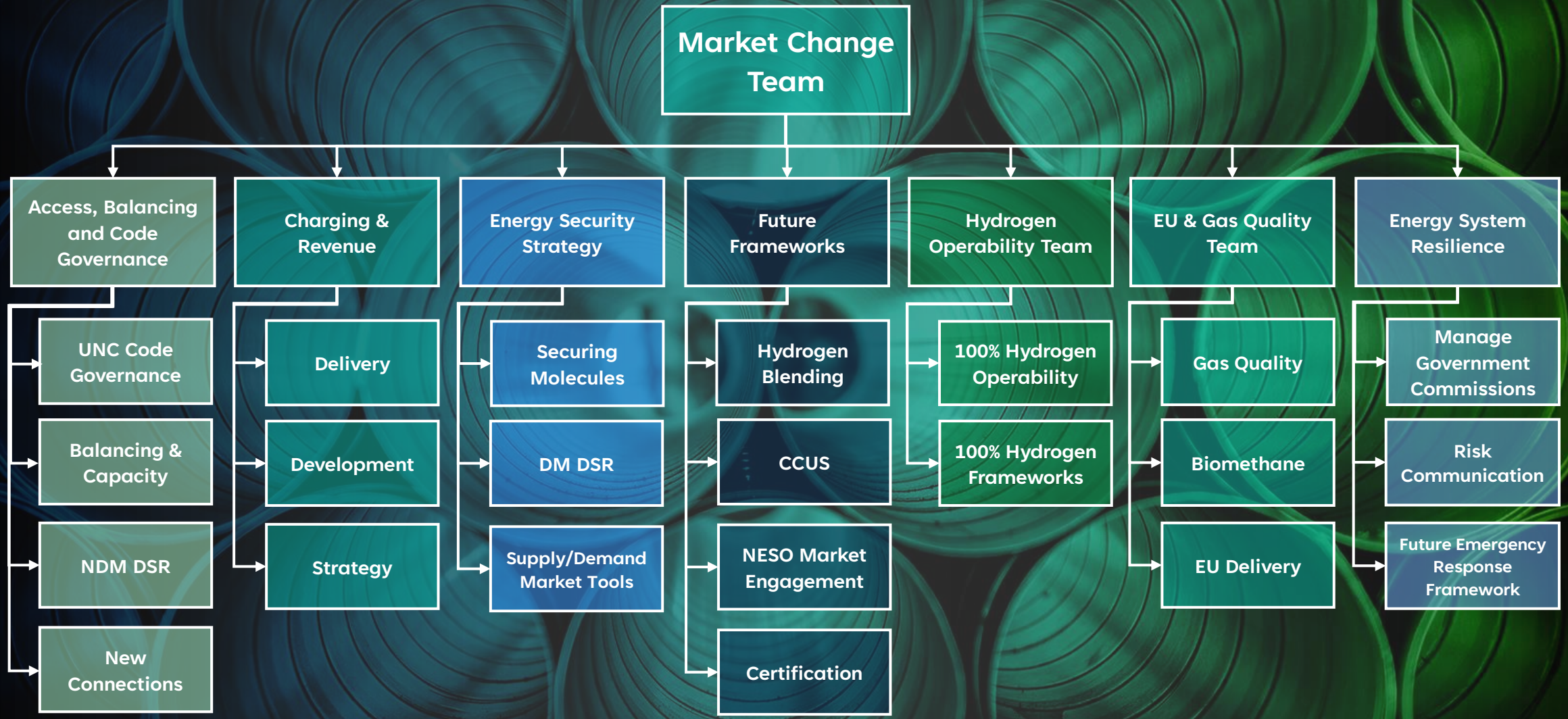
National Gas Market Change Update

Nicola Lond
Senior Codes Change Lead

Laura Loughran
Code Change Lead

Kirsty Appleby
Code Change Lead – Charging & revenue

Market Change Team Responsibilities



Transmission UNC Modifications

Approved awaiting implementation

	Implementation
• 0864s : fax removal from Code Communications	• TBC
• 0887 : Facilitating Bi-Directional connections between IGT pipelines and the NTS	• TBC

Awaiting Authority Decision

D0001 - Hydrogen Blending: An NTS Transportation and Power Station Consumption Demonstration.

0900 - Amendment to the Gas Quality NTS Entry Specification at Biomethane System Entry Points

In development

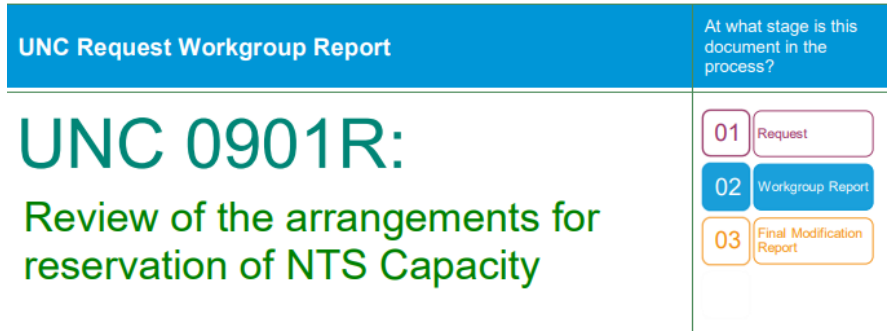
- 0849R: Commercial Framework Review to Enable Hydrogen Blending
- 0894/A: Biomethane entry into the GDN by exporting methane from the GDN into the NTS via Compression
- 0901R: Review of the arrangements for reservation of NTS Capacity
- 0902R:EU Capacity Allocation Mechanism Network Code Review
- 0907: Extension to current maintenance period
- 0912s: PARCA Quarterly NTS Entry Capacity minimum duration quantity
- 0913: Amending referencing and naming errors in TPD section B and V

At Consultation

- 0903:Introduction of a Single NTS Capacity Reference Price

Arrangements for Reservation of Capacity review

- **Review Group 0901R** has highlighted several potential improvement areas for the reservation of Capacity (PARCA process)
- The Workgroup report is due to be finalised in October workgroup for **return to Panel in October**.
- **There is no consultation** for a Review Group.
- The workgroup report will contain recommendations.



- **New modification 0912S** has been raised to address a specific point on the capacity commitment required when existing available capacity is utilised to fulfil a PARCA requirement.

For further information, or to share your thoughts on this subject, please contact Nicola.j.lond@nationalgas.com. Join the conversation at Transmission Workgroup - Review of the arrangements for reservation of NTS Capacity | Joint Office of Gas Transporters - Gas Governance

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CAM Network Code Reform - What has happened and why is it relevant for GB?

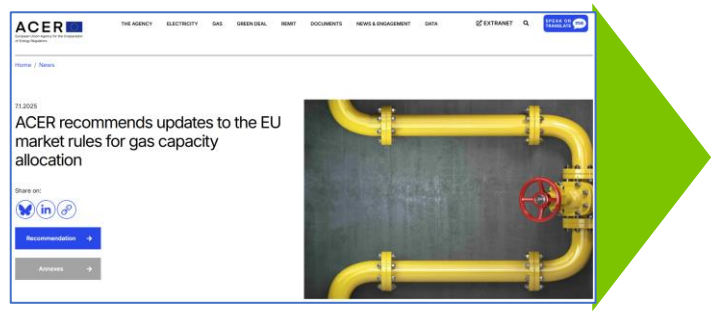
- The EU **Capacity Allocation Mechanisms (CAM)** Network Code is an EU Regulation that EU TSOs were legally obliged to implement as part of the EU 'Third Energy Package' in 2015

- At **Brexit**, the CAM Code was transposed into UK law, accompanied by a new Statutory Instrument (SI), so continues to apply at GB Interconnection Points (IPs)

- **ACER** have conducted a review and issued a **recommendation** to the European Commission in Dec 2024 to update the EU CAM Code to deliver greater flexibility in IP capacity booking and better align the capacity regime to the gas commodity market

- As GB is **physically and commercially** interconnected to NI and EU member states, EU gas market change is relevant for consideration in GB. **Compatibility** is important to maintain efficient trading arrangements across interconnectors.

- This is the first EU Network Code Reform post-Brexit and so acts as a 'test-case' for GB.



CAM Network Code Reform – UNC Workgroup 0902R

- UNC Modification **0902R** was raised in January 2025 to review the benefits and risks of GB divergence / alignment. The key proposals we have been discussing are:

Arrangements for capacity calculation / maximisation	Additional capacity auctions at Interconnection Points (including a new balance-of-month product)	Incremental capacity arrangements	Auction parameter modification process

- As the UNC Workgroup 0902R approaches a close, we plan to raise a **'successor' Modification** to propose changes to GB arrangements, informed by the conclusions of 0902R.
    - Note - any GB changes are still subject to a final decision on the amendments to the EU's CAM code. We anticipate an update from the European Commission by the end of 2025.

For further information, or to share your thoughts on this subject, please contact Laura.Loughran@nationalgas.com. Join the conversation at Transmission Workgroup - EU Capacity Allocation Mechanism Network Code Review | Joint Office of Gas Transporters - Gas Governance

Charging: UNC Modification 0903 – Now at Consultation

National Gas Transmission raised UNC Modification 0903 in early 2025 after an extensive development period, that is now at consultation stage. UNC0903 proposes the **introduction of a single Capacity tariff across all Entry Points and all Exit Points** (whilst maintaining all existing discount methods). Extensive discussions including analysis of potential impacts have taken place at the workgroups which concluded in July. UNC0903 is now out for consultation with **representations invited by 5pm on 2nd October 2025**. After this, Ofgem is expected to conduct a Regulatory Impact Assessment.

Proposal Objectives Reminder:

UNC0903 proposes improvements to the charging methodology aiming to:

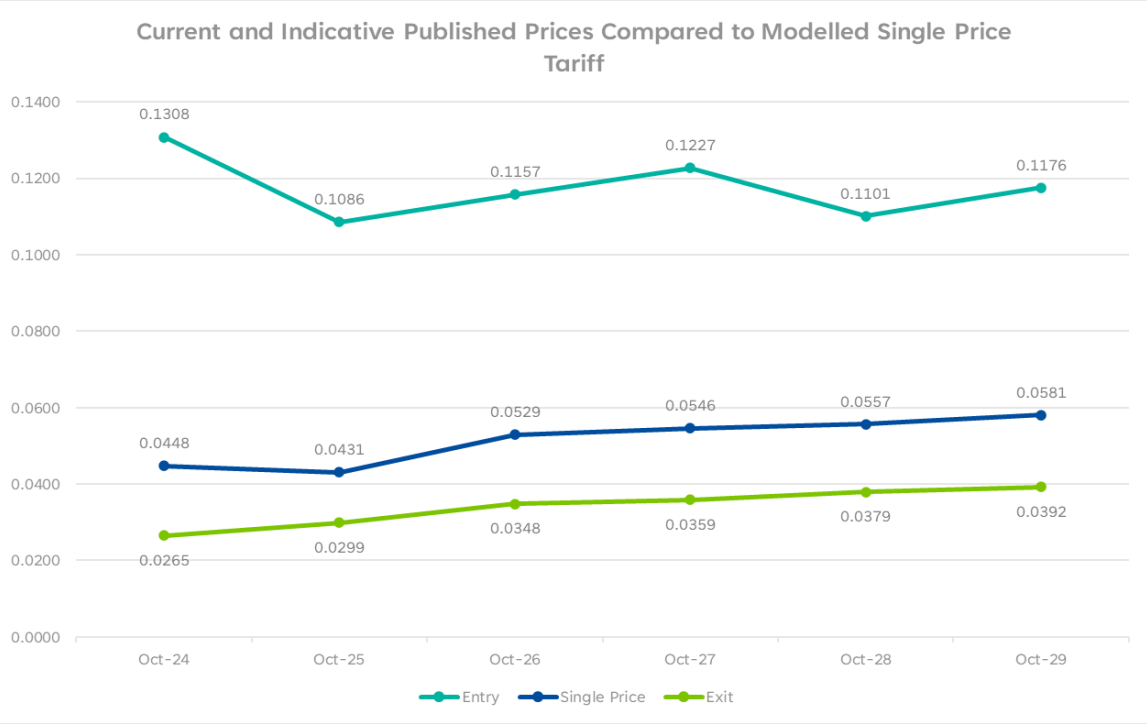
- Improve the overall stability of pricing to help minimise impacts that would otherwise affect Entry or Exit
- Reducing Entry reserve prices, offering lower costs than it would otherwise be under the As-is method, removing barriers to Entry
- Reduce the overall capacity tariff for one unit of gas entering, utilising, and exiting the NTS.

Analysis to help understand potential impacts, including for domestic consumers using Ofgem's price cap model, are available on the UNC0903 modification pages and referred to in the Draft Modification Report

For further information please contact colin.williams@nationalgas.com or Kirsty.Appleby@nationalgas.com.
To follow progress, review all documentation and to **respond to the consultation** please follow the UNC0903 main page on the Joint Office website.

Charging: UNC Modification 0903 – Now at Consultation

Introduction of a single Capacity tariff across all Entry Points and all Exit Points (illustration of Capacity charge impact)



Note: Entry/ Exit Prices for October 24 and October 25 are published actuals. October 26 prices onwards are published indicatives.

Entry prices would reduce from what they would otherwise be under status quo

Exit prices would increase from what they would otherwise be under the status quo

The single price under 0903 would smooth out potential volatility, more pronounced for Entry but still relevant to Exit

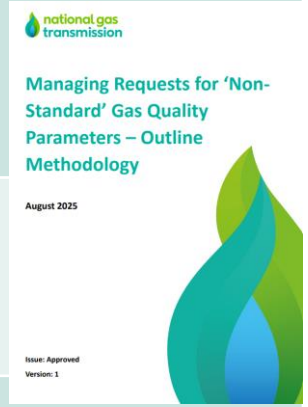
On a unit price basis, the Entry reduction would be larger than the Exit increase. Further assessments beyond this are available as part of the workgroup report and the workgroup materials.

Update: Gas Quality – Non-standard requests

Transparent and Consistent: New Methodology

New methodology has been developed. This will be published on our website Connections Document Library

- Clear and transparent process documenting how we will manage requests for non-standard gas quality arrangements – oxygen (O2) and Carbon Dioxide (CO2)
- Non-Standard is that outside of our template Network Entry Agreement specification
- Methodology shaped through industry consultation via UNC Gas Quality Workgroup



- **Heat Map** of the NTS has been included in the methodology
  - Showing areas of the NTS where elevated O2 may be accommodated more easily
  - Is based on likelihood of our pipeline conveying gas to "sensitive customers" within area
- **Network Analysis** will be undertaken for each application on a worst-case basis to determine risk
- Pre-defined **Decision-Tree**
  - Sets out clear steps to give a 'yes', 'no' or what level (of O2/CO2) can be accommodated
  - Methodology will be applied consistently
- Assessment made at the **Application** Stage (applicable to new connections)

For further information, or to share your thoughts on this subject, please contact Ahmed.jama@nationalgas.com

Thank you

Market Change | National Gas

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Alex Potter

Lead NEC Specialist
National Gas

Exercise GLACIER

NEC Assurance Exercise 2025

Network
Emergency
Co-ordinator

Network Emergency Co-ordinator Assurance Exercise

Purpose

- Showcase the gas industry's ability to manage a Network Gas Supply Emergency (NGSE) safely and effectively.
- Fulfil the NEC’s legal obligation to assure emergency response capability.

Scenario

- Simulated supply losses will trigger an NGSE, testing industry-wide response mechanisms.

Key Objectives

Emergency Management

- Test response to emerging gas shortages using warning notices and proactive communication.
- Assess industry understanding post-exercise.

Pre-Emergency Strategy

- Simulate activation of commercial and physical tools.
- Evaluate the Primary Transporter’s situational awareness through collaboration.

Network Emergency Co-ordinator Assurance Exercise

Key Objectives

Coordination

- Strengthen gas-electricity interaction processes.
- Engage National Energy System Operator and Electricity Distribution Network Operators.

Success Indicators

- Effective two-way communication across stakeholders.
- Timely, accurate information sharing.
- Implementation of robust emergency strategies.

Exercise GLACIER

Mon 13 Oct, Day 1 – Pre-Emergency / Stage 1 NGSE

Tue 14 Oct, Day 2 – Stage 2 NGSE

Tue 21 Oct, Day 3 – Stage 3 NGSE

Exercise GLACIER

Monday 13th October Pre-Emergency

- Gas Transporter Collaboration
- Gas Balancing Notification
(live issue marked for exercise)
- Gas Availability Status (GAS) Report
(live population marked for exercise)
- Scale-back Off-peak Exit Capacity (consideration of live data by GSO but no further communications issued)
- Activation of Operating Margins Contracts
(testing of contract activation process for Exercise)

Tuesday 14th October Emergency

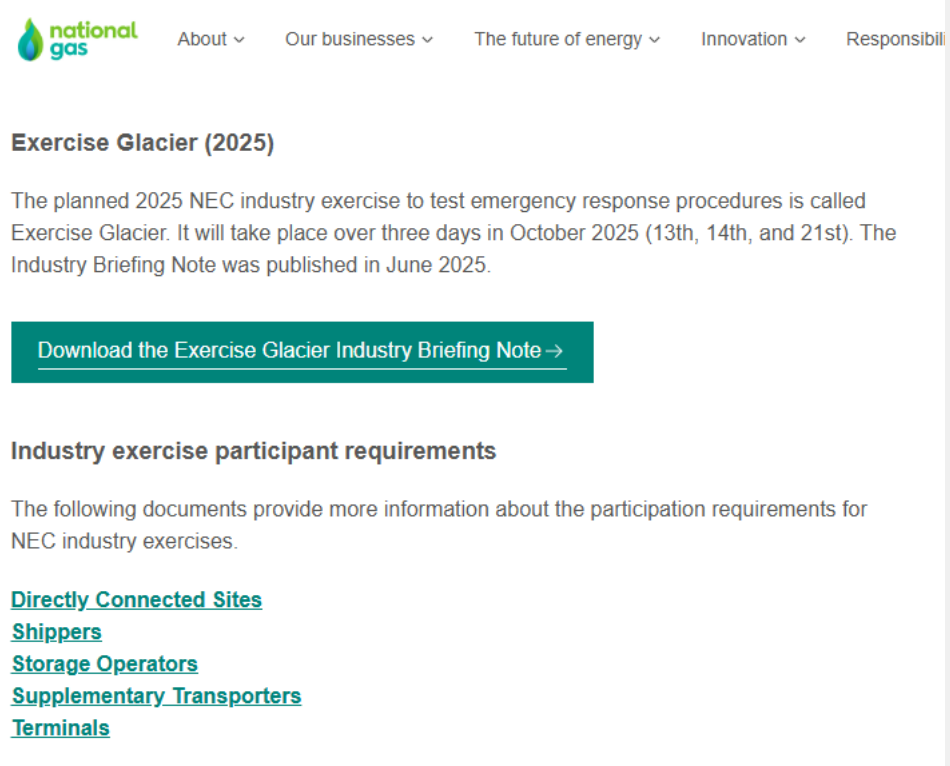
- Declaration of an NGSE
(live issue of Emergency declaration marked for exercise)
- Stage 1: Determine Use of Available Gas
(exhaust available Stage 1 actions)
- Stage 2: Entry Point Flow Directions
(live issue of directions to maximise flows marked for exercise)
- Stage 2: Load Shedding Directions*
(live issue of directions to cease taking gas marked for exercise)
- Public Appeal
(notional issue)

Tuesday 21st October Isolation

- Public Appeal
(notional issue)
- Stage 3: Allocation and Isolation
(live issue of allocation and isolation directions marked for exercise)

Industry Briefing Note

- Can be viewed at National Gas website:
  - https://www.nationalgas.com/sites/default/files/documents/20250624-NEC_Exercise_GLACIER_Industry_Briefing_Note.pdf



Emergency Contact Data

Distribution Networks

This map shows the Distribution zones by region, and network operator.

There are currently four DNs which operate across several LDZs, and they are listed below:

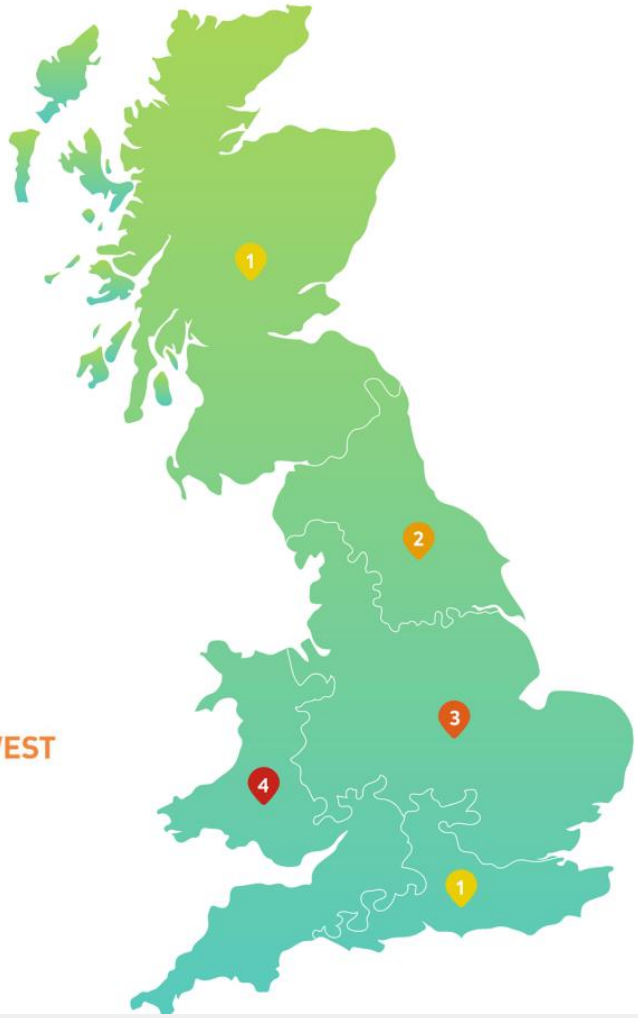
1. SGN
2. Northern Gas Networks
3. Cadent
4. Wales & West Utilities

SGN Your gas. Our network.

Northern Gas Networks

Cadent Your Gas Network

WALES&WEST UTILITIES



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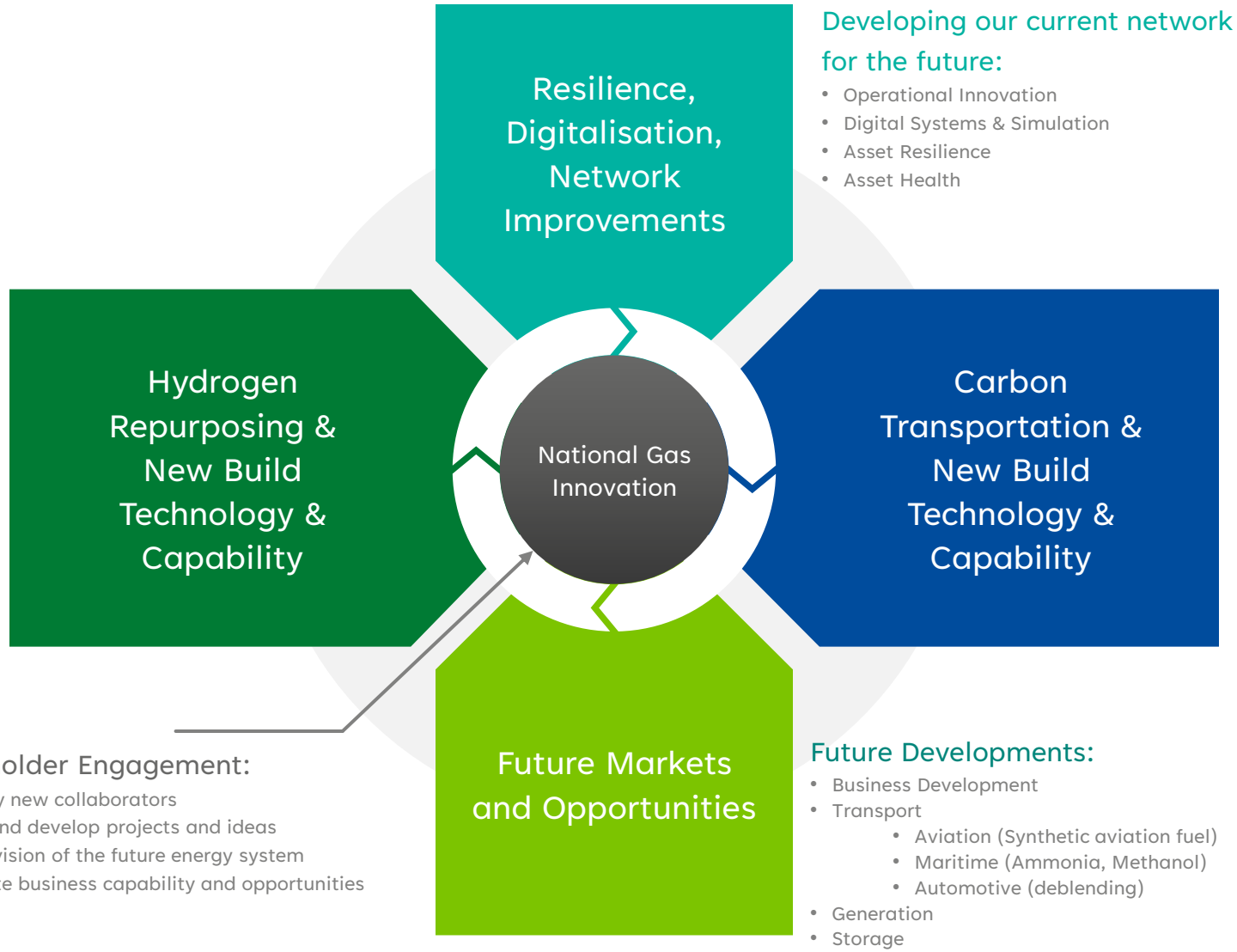
Exploring the Impact of Innovation

Helen Blundell

Innovation Implementation Manager
National Gas

Innovation at National Gas



Developing our current network for the future:

- Operational Innovation
- Digital Systems & Simulation
- Asset Resilience
- Asset Health

Hydrogen Transport:

- Asset capability
- Asset Design
- New asset development
- Materials Capability
- Measurement systems
- Inspection & Surveillance
- Control & Management
- Skills & Competencies
- Blending

Carbon Capture:

- Asset capability
- Asset Design
- New asset development
- Materials Capability
- Measurement systems
- Inspection & Surveillance
- Control & Management
- Skills & Competencies
- Gaseous & Dense Phase

Stakeholder Engagement:

- Identify new collaborators
- Build and develop projects and ideas
- Share vision of the future energy system
- Promote business capability and opportunities

Future Developments:

- Business Development
- Transport
  - Aviation (Synthetic aviation fuel)
  - Maritime (Ammonia, Methanol)
  - Automotive (deblending)
- Generation
- Storage

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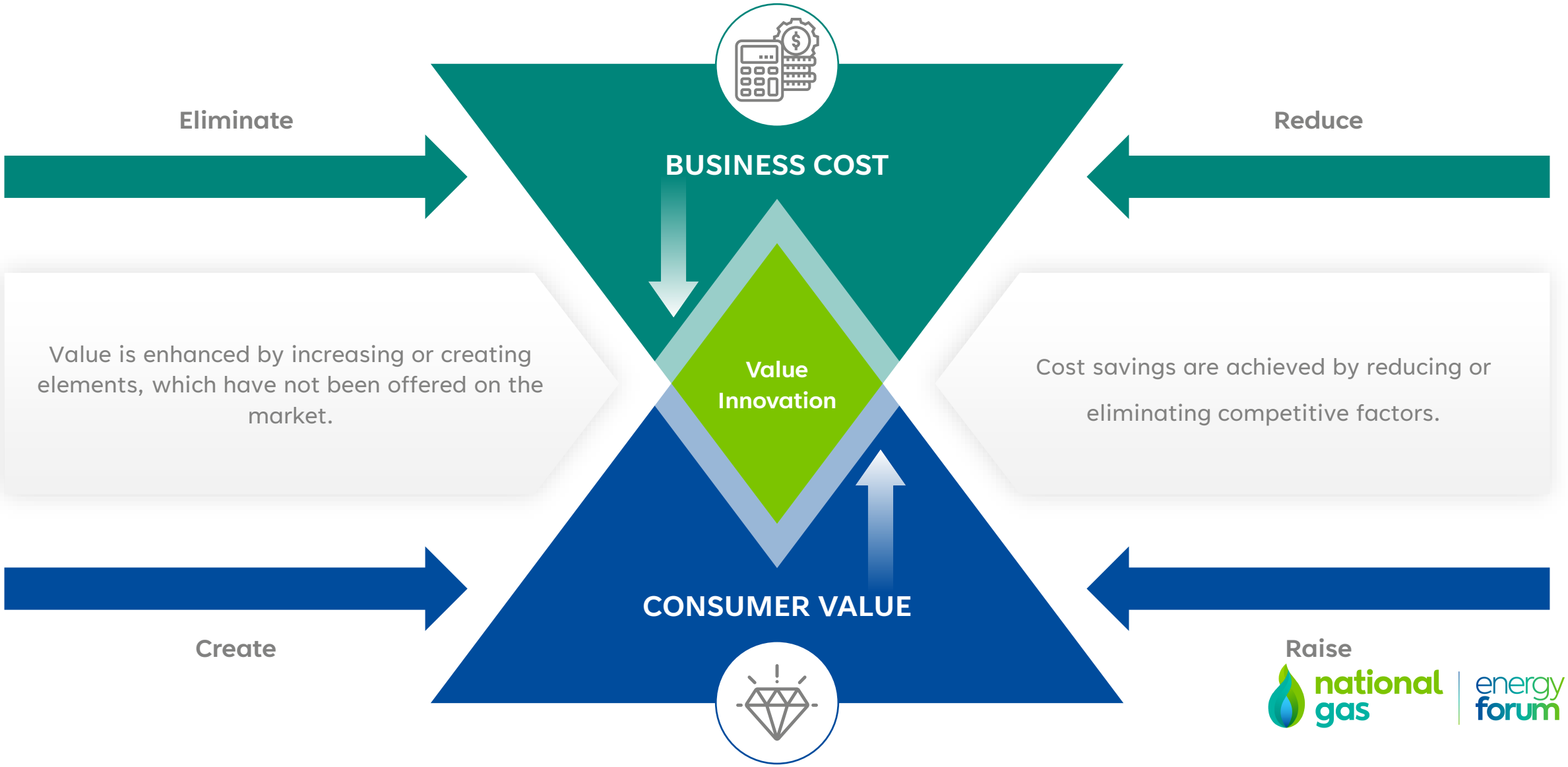
Why do we innovate?



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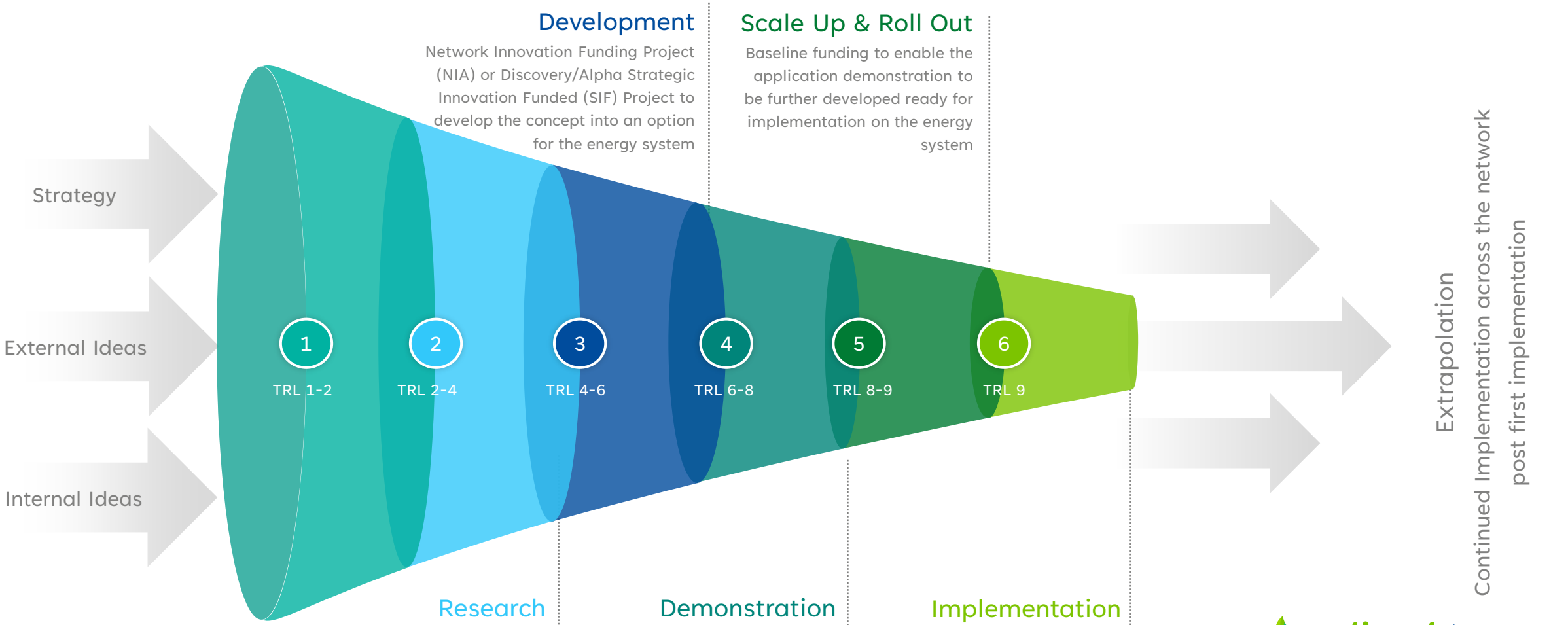
How do we innovate?

From Idea to Implementation



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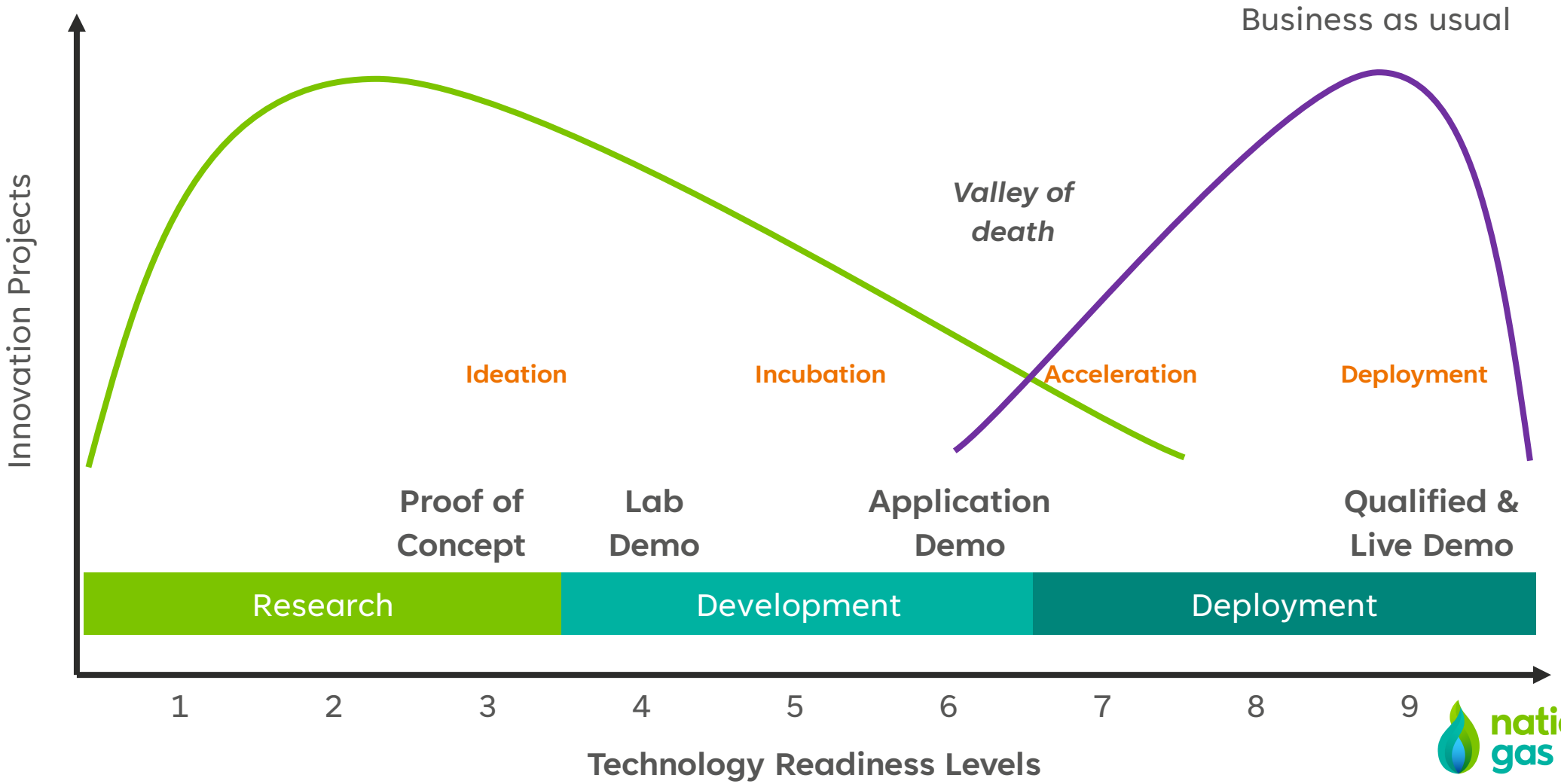
Challenges of Implementation



Understanding Value

Innovation Project Delivery & Management
Idea development to Implementation and Value Tracking

Strategy & Ideas → Project Pipeline & Sanction → Project Delivery → Project Closure → Project Implementation → Business Investments

Value Tracking Stage 1
Idea Rating

Enables prioritisation for delivery & assesses alignment to business

Value Tracking Stage 2
Proposed Benefits

Logs benefits for consideration by project sanction committee. Cost, safety & environmental impact considered

Value Tracking Stage 3
Benefit Status

Reviewed at key gateways. Is the project delivering what we expected?

Value Tracking Stage 4
Project Closure Benefits

Enables prioritisation of the projects for implementation. Supports value reporting requirements

Value Tracking Stage 5 – Implementation Benefits
Case Studies Published Business Benefit Logged

Case study for all closed innovation projects reported here: https://www.nationalgas.com/innovation/value-delivered

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The Value of Implementation in RIIO-2

Close relationships across the business, coupled with an innovative mindset drives value

£4.7m	£180m	£209.4m
Innovative Spend Across Business in RIIO-2	Total Value driven from RIIO-1 Innovation Projects to date	Total Value Driven from RIIO-1 & RIIO-2 Innovation Projects (majority are energy transition so will recoup value in future price control periods)
92 Projects	33 Projects	34 Projects

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Case Study: Dent Tolerance

Small changes can drive large value

This RIIO-1 project carried out comprehensive testing on simulated pipeline dents to determine the tolerance of L555 (X80) pipeline.

The results provided the industry with validation of the pipeline tolerance levels for plain dents, thus being incorporated into industry documentation for pipeline inspections

This has meant an increased confidence in the assessment of pipeline dents, thus reducing remedial actions and outages.

Project Cost: £900,000 (2018)
Value realised by March 2025: £85,200,000

Looking forward to RIIO-3

Estimated ~£50M value still to be realised from implemented innovation projects

BIM (Building Information Modelling) and Open Source SCADA (supervisory control and data acquisition) are two implemented digital innovation projects expected to drive significant value over the coming years.

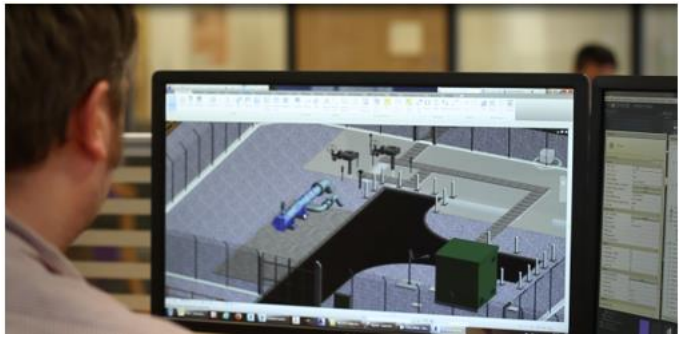
- BIM allows for the pegging of cost and carbon data to 3D models throughout an asset's design, construction and maintenance
- SCADA allows for the remote and local operation, configuration and management of compressor stations and terminals, including monitoring real time data and alarms

Combined, these innovations have driven a cost saving of £20M during RIIO-2.

Additional innovation has been ongoing to the software to reduce emissions from compressor isolation valves, thus increasing the expected RIIO-3 value further

Additional RIIO-3 Innovations to look out for:

- Dynamic risk-based surveillance technology
- Robotic and non-destructive asset inspection techniques
- Improved site communications technology



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Bill Goode

Business System Delivery Lead
National Gas

Agenda

1. Energy Identification Code (EIC) Change
2. User Survey Next Steps
3. Gemini Development - Work In Progress
4. Upcoming and Completed Gemini Development
5. Support Details

Energy Identification Code (EIC) Change

- The programme successfully implemented the Energy Identification Code (EIC) change on **Tuesday 9th September 2025 by 10:00 (BST)** all file interfaces were successfully checked for connectivity post go-live.

- There are 2 APIs impacted by the change, these API were required to reflect the EIC change to ensure they continued to be processed successfully. The two impact APIs were:-

    1. **View IP Nomination (data item: RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION)**
    2. **Add/Update IP Nomination (data item: INTERNALACCOUNTTSO)**

- National Gas and our suppliers are monitoring API usage and proactively engaging with parties if the old EIC code is still being used to call these APIs.

- Support for Post EIC implementation please contact servicedesk@xoserve.com. Further information about EIC can be found in the Change Pack approved at Change Management Committee in May 2025

User Survey Next Steps

- The Gemini Sustain Plus programme, after 2.5 years of dedicated effort, successfully implemented a significant upgrade to the Gemini System in March. This upgrade impacted all users and provided a range of benefits, including enhanced usability, functionality, and support

- A customer feedback survey was shared with all Gemini Users post go-live, where we received feedback from 81 external users. The average score for overall system experience was **7.59/10, with 77% rating experience as Good or Excellent.**

- We are keen to understand where we can further improve from a delivery and user experience perspective, as a result we are reaching out to **High Frequency Users** of the system to offer them the opportunity to provide feedback during a call.

- We would also like to open this offer up to any interest party, to gain insight to key learnings on future improvements, if you or your organisation would like to share feedback via a short call, please contact GeminiSustainPlus@nationalgas.com

Next Steps

- The programme will reach out to those high frequency users and set-up calls where required, following that the programme will develop a future change backlog, which will also take into consideration regulatory change.
- Following that we will playback summary results of the User Survey and feedback sessions in the Autumn

Gemini Development – Work in Progress

Energy Balancing Adjustment Process

- The programme has successfully completed development phase of the 'Enhancing the Energy Balancing Adjustment Process' and is now completed User Acceptance Testing.
- The objective of this enhancement is to streamline the process bringing the following benefits:
  - ✓ Enable shippers to directly add, review, approve and reject adjustments for the specified site types.
  - ✓ Reduce reliance on email communications
  - ✓ Improved visibility and traceability of adjustments across all stakeholders
- The Go-Live date for this change is currently being assessed, once confirmed it will be communicated out accordingly.
- For further details please find Change Pack that has been shared on 16th June 2025

Long Term Utilisation Monitoring Report

- This is a minor change to an external report (LT UIOLI Monitoring Report) it ensures that Short-Term Capacity bookings are not included within the report, ensuring the utilisation percentage is accurately represented.
- The programme has commenced with development work and aiming to deliver ahead of October 2025 and the regulatory reporting deadline.

Upcoming and Completed Gemini Development

Completed

UNC Modification: 0897 Removal of Non-Obligated Entry Capacity from Capacity Neutrality

- The programme successfully delivered the solution on **1st July 2025** to meet the obligations within this Modification.
- Please note, there are no impacts to Gemini screens or APIs. This is purely a charge calculation change. First usage has been monitored from **August 2025**.
- Further information about the change, can be found in the Change Pack was formally approved at Change Management Committee in April 2025.

Upcoming

UNC Modification: 0887 Facilitating Bi-Directional Connections Between IGT Pipelines and the NTS

- Following Modification approval on the **19th August 2025**, discussions are taking place to agree optional time to deliver the central system solutions to meet the obligations set-out within the Modification.
- The programme is hopeful of commencing development work on Gemini in **Q4 2025**.

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Alan Stephen

Lead Account Manager, Customer Connections
National Gas

National Gas – Key player in Hydrogen Transport Infrastructure

Blend and grow hydrogen economy

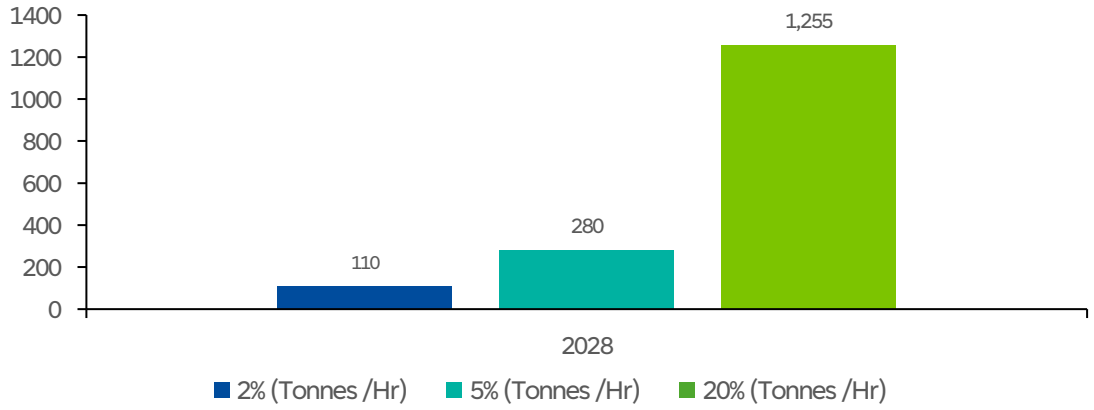
Project Union

Deliver on UK's decarbonisation goals by **2050**

Hydrogen Blending

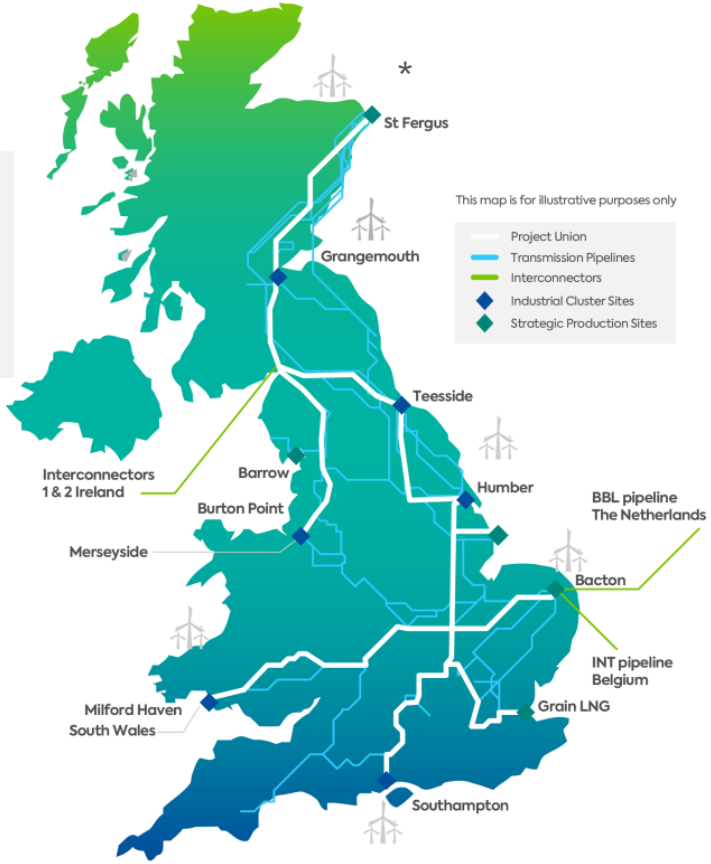
- Enabling Hydrogen Blending on the NTS is crucial to building a Hydrogen market
- Through blending, Hydrogen producers can access a wider demand market and de-risk projects

Blend Volumes available in 2028
Tonnes/Hr



ProjectUnion

- National Gas plans to repurpose NTS assets and build a GB central hydrogen backbone



* For illustration

National Gas – Key player in Hydrogen Blending

De-risking Projects

Blending reduces risk for producers in early years, when hydrogen demand is uncertain, by providing backstop demand. This reduced risk makes debt financing more accessible and thereby improves investability into hydrogen projects

High capacity

The NTS has the highest capacity for blend over any other network. With volumes of 280 tonnes/hr of hydrogen available at 5% blends in 2028

Access a wider market

NGT can play a pivotal role in integrating hydrogen producers to a wider market through its various direct connects into the power, heat, and transport sectors

We are working directly with EU Transmission System Operators to ensure alignment across UK and EU

Hydrogen Infrastructure

Pipelines and storage facilities also requires significant long-term investment. NGT with its long-term hydrogen planning and access to capital, can de-risk these investments and accelerate their deployment

Expertise in building and managing networks

Blending Timeline

DESNZ Consultation

Hydrogen blending into the GB gas transmission network

DESNZ Consultation

Questions

Q1a. Do you agree with the assessment of the impacts of blending up to 2%, 5% and 20% hydrogen by volume on NTS connected end users? Please provide evidence to support your response.

Q1b. Are there any further operational and/or financial impacts on end users we should consider? Please provide evidence to support your response

Q2. Do you agree that if transmission blending is enabled and intended to be commercially supported by government, the most appropriate mechanism would be via the Hydrogen Production Business Model? Please provide evidence to support your response.

Q3. Do you agree with our minded to position, if blending were enabled, to allow both the gas transmission network operator and gas shippers to purchase hydrogen produced for blending? Please provide evidence to support your response.

Q4. Do you agree that working within the current gas billing arrangements will not result in an increase in billable usage and gas bills for end users connected to the NTS, should transmission level blending be enabled by government? Please provide evidence to support your response.

Q5a. Do you agree with our minded to position, if blending were enabled, to consider further whether to support and enable transmission blending of up to 2% hydrogen by volume? Please provide evidence to support your response

Q5b. Do you have any further concerns on enabling blending up to 2% hydrogen by volume into the NTS? Please provide evidence to support your response.

Q5c. Is there a maximum level of blend that would be feasible with minimum modifications for sites connected to the NTS? Please provide evidence to support your response.

Q6a. We welcome feedback on the economic assessment presented and any further analysis on the costs and benefits of transmission blending

Q6b. Please provide any additional information on the costs of any required modifications or mitigations required for NTS connected sites to be able to accommodate a blend of up to 2% hydrogen by volume. If you do not currently have this information, how long do you expect it take to assess what mitigations might be needed and what the costs of these could be?

Consultation Details

Department for Energy Security & Net Zero

Hydrogen blending into the GB gas transmission network

Published 23 July 2025
Closes 11:59pm on 16 September 2025

How to respond
Respond online or
email hydrogentransportandstorage@energysecurity.gov.uk

Summary Technical ask: End-User acceptability and modifications required at different blend percentages? (2, 5, 20%)

Summary Commercial ask: What are the costs involved for end users and the market? How much does it de-risk Hydrogen producers?

National Gas Response

Key Response

National Gas are calling for **DESNZ to take a strategic policy decision of up to 5% blend** on the Transmission system. We believe that **5% maximises de-risking for Hydrogen producers** whilst still mitigating for end-users. Our current understanding is that **modifications required for 2% and 5% will be broadly similar** however **further work is required, and National Gas has suggested routes to funding this**. A strategic policy decision is required to enable a thorough investigation into <5% blend.

End-User Acceptability

- National Gas response looks at blend acceptability at the following archetypes:

  Power Stations
  Storage sites
  Industrial sites

- We believe that modifications required for **2% and 5% will be broadly similar** but accept **further work will be needed.** We have suggested routes to funding this work.

- In order to remain in line with current EU policies, we are investigating our approach to **managing blends at interconnectors**

De-Risking Producers

- National Gas agrees that blending at 5% will enable hydrogen producers to **fully de-risk projects** and allow them to access lower cost debt to fund their projects Hydrogen producers.

- This in in turn will enable them to **reach FID earlier** and **decrease** their hydrogen **strike price**

- Overall subsidy requirements will be lower, and the resulting savings should be redeployed to end-users for any required modifications

Commercial Frameworks

- National Gas agrees that blending **should be managed through the HPBM**. This should include considerations to ensure direct offtake of hydrogen is incentivised over blending.

- National Gas agrees that current billing arrangements should be sufficient. Shippers and networks should be allowed to buy blends, although highlights that a certification scheme should be enabled to unlock additional value of blends and decarbonise key end-users

- Enabling blend connections will need **improved strategic thinking** to maximise the utility of blending for the whole system. It will optimise production while mitigating impacts to end-users.

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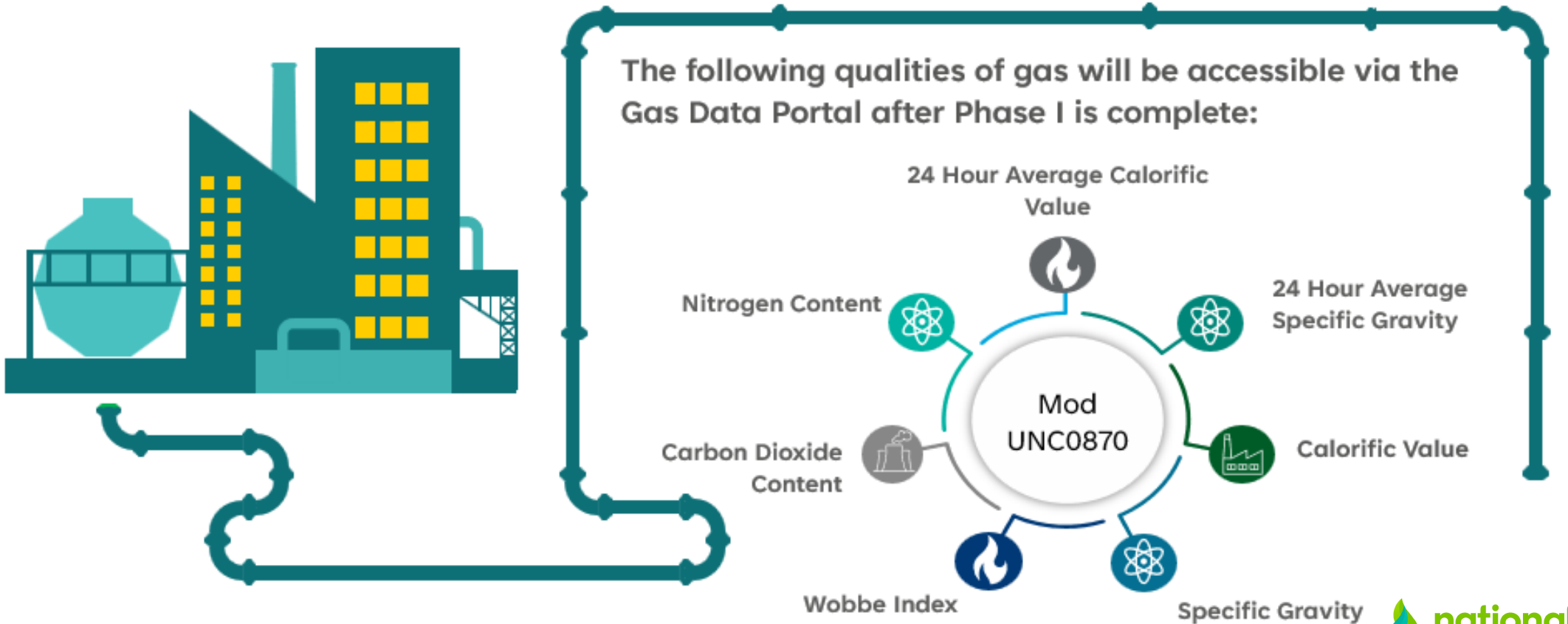
Sam Beasley

Product Support Analyst
National Gas

What Is Gas Quality Data?

Vision for Gas Quality Data

- Available & accessible platform for all users to conduct trend analysis on various qualities of gas
- Transparency on the Gas Data Portal, of all parameters that are currently measured at Distribution Network offtake points, as well as compressor & multi-junction sites.



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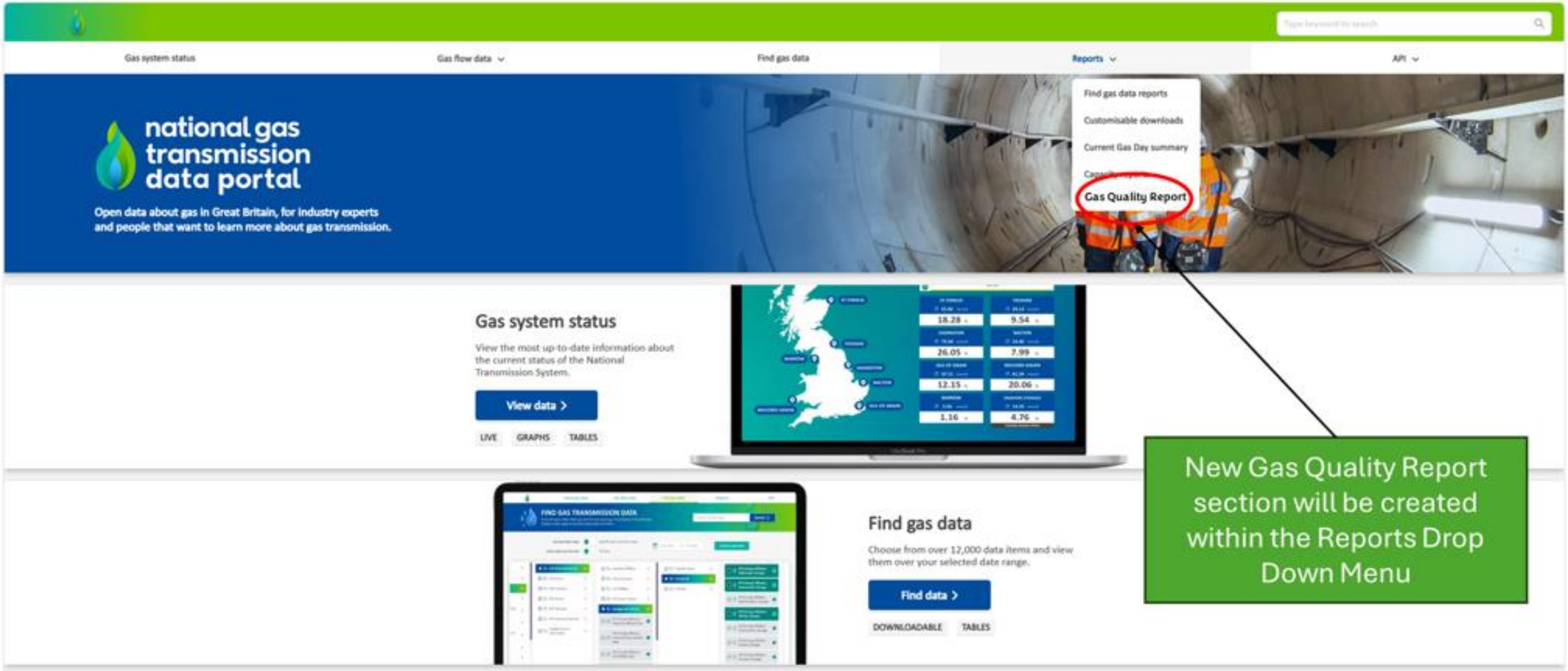
Gas Quality Data

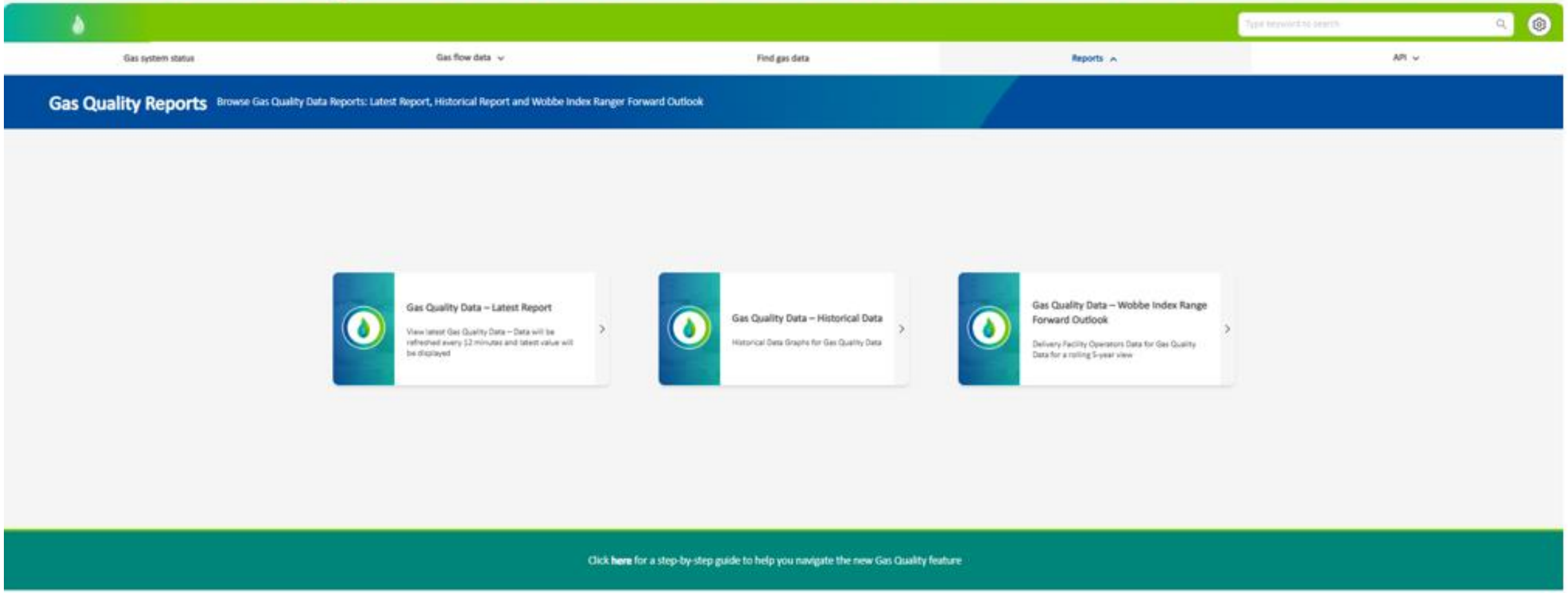
User Benefits & Access To (via Gas Data Portal):

- Near Real-time operational data
- Reporting and forecasting
- Latest and Historic data reports over the last 3 years
- Customisable trend analysis platform

Navigate to Gas Quality Data



Gas Quality Data on The National Gas Data Portal



Latest Data Report

Type keyword to search

Gas system status | Gas flow data | Find gas data | Reports | API

Back

Published Day: 04/09/2025

Published Time: 11:10:00

Latest Gas Quality Data

The Information contained is the latest value from a 12-minute snapshot. It is made available as an information service only and National Gas do not assume any responsibility for the accuracy of or the content of the Information including without limitation, any delay that may occur in making available the Information.

Site	Area	24Hr Average Calorific Value (MJ/m3)	24Hr Average Specific Gravity	Calorific Value (MJ/m3)	Specific Gravity	Wobbe Index (MJ/m3)	Carbon Dioxide Content (%mol)	Nitrogen Content (%mol)
AberdeenOT	Scotland (SC)	39.49	0.62	39.59	0.62	50.03	2.00	0.768
AlrewasEMOT	East Midlands (EM)	34.99	0.49	40.23	0.64	50.07	1.93	1.639
ArmadaleOT	Scotland (SC)	39.59	0.62	39.48	0.62	49.98	1.94	0.799

Download as CSV | Print all data

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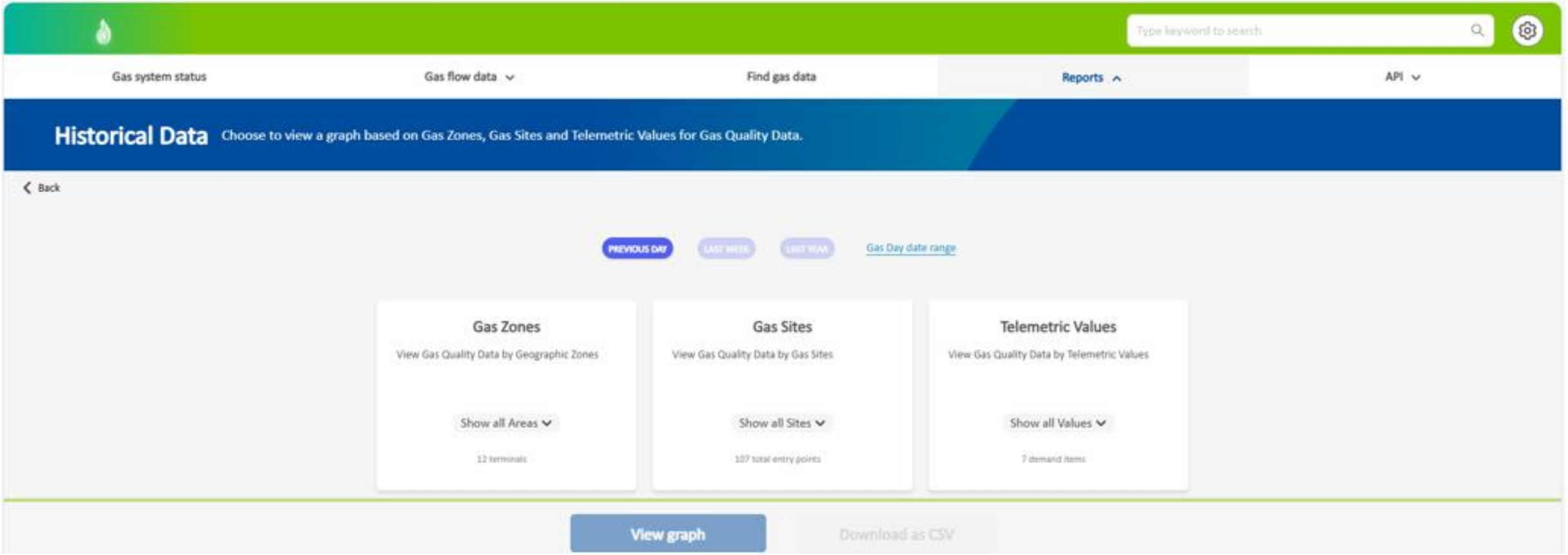
Historical Data Report



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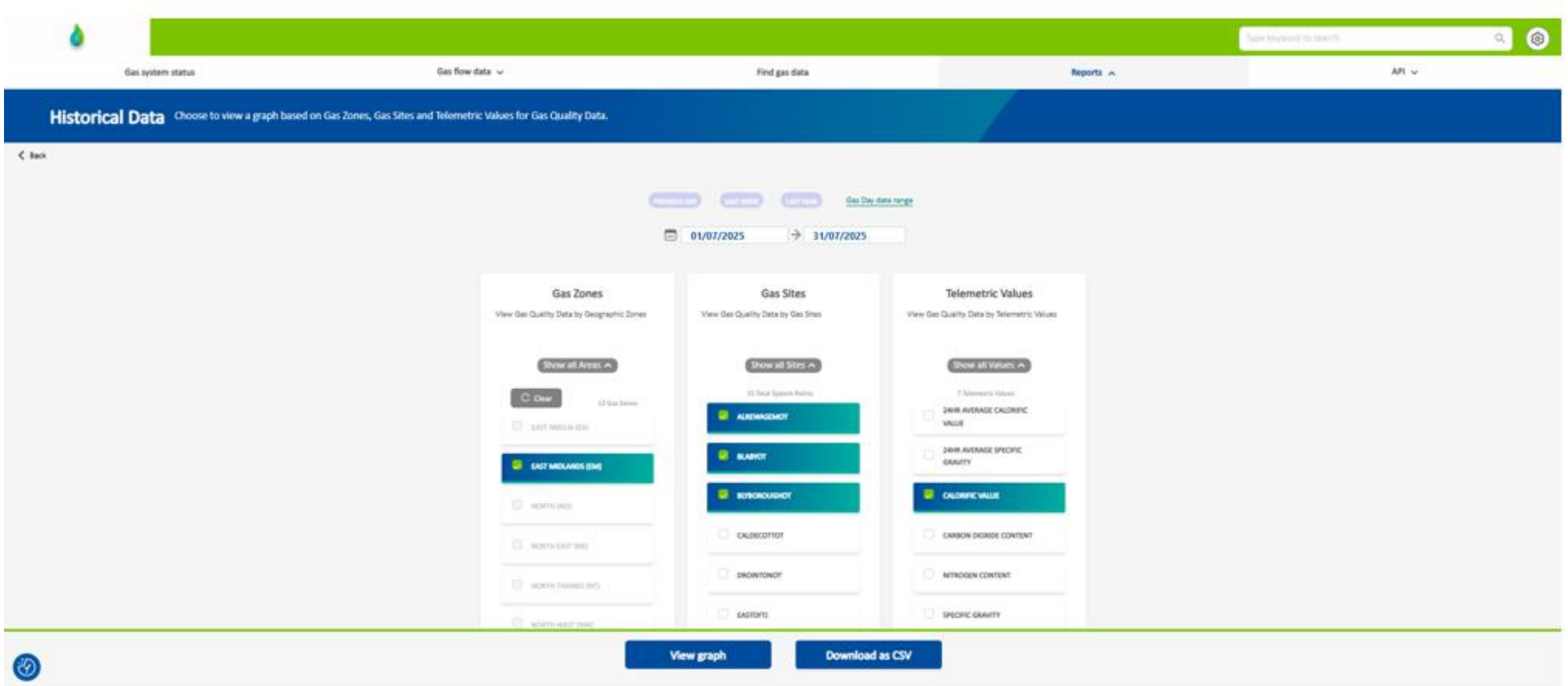
Historical Data Report



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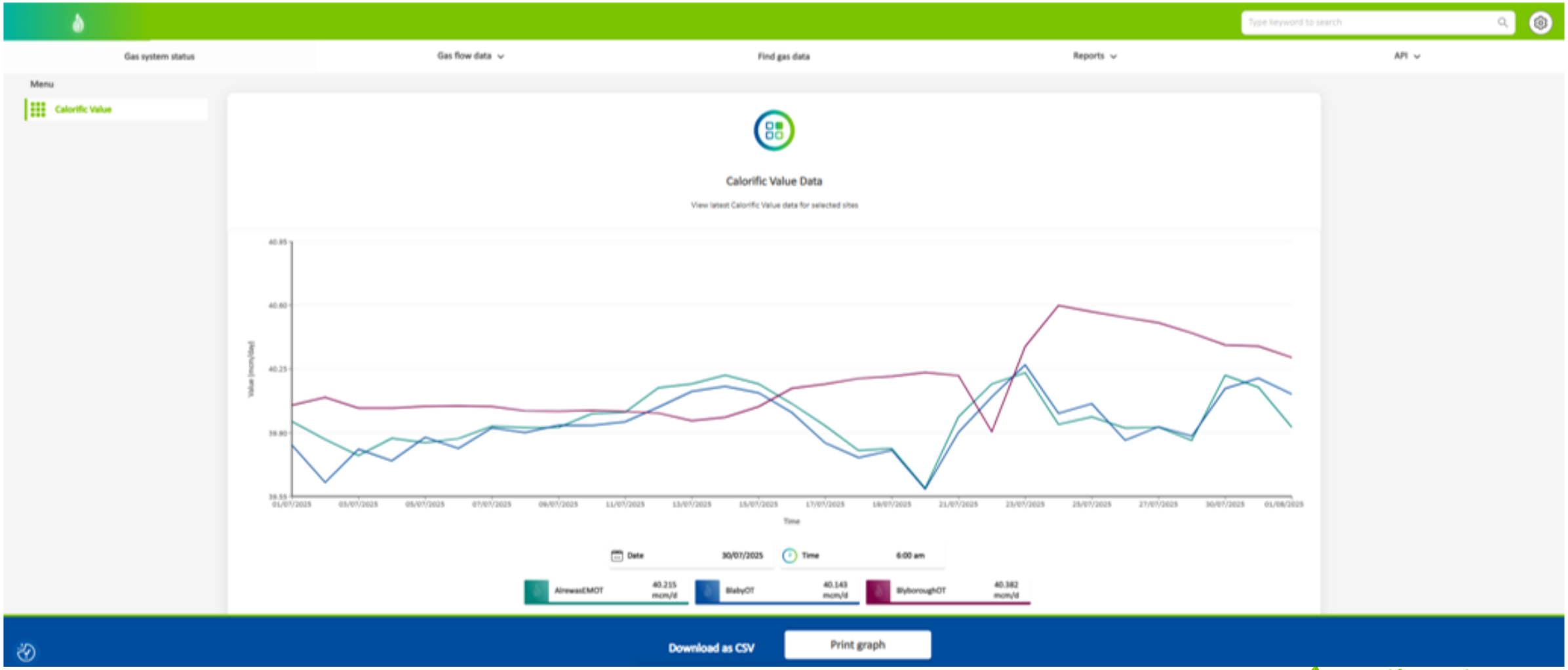
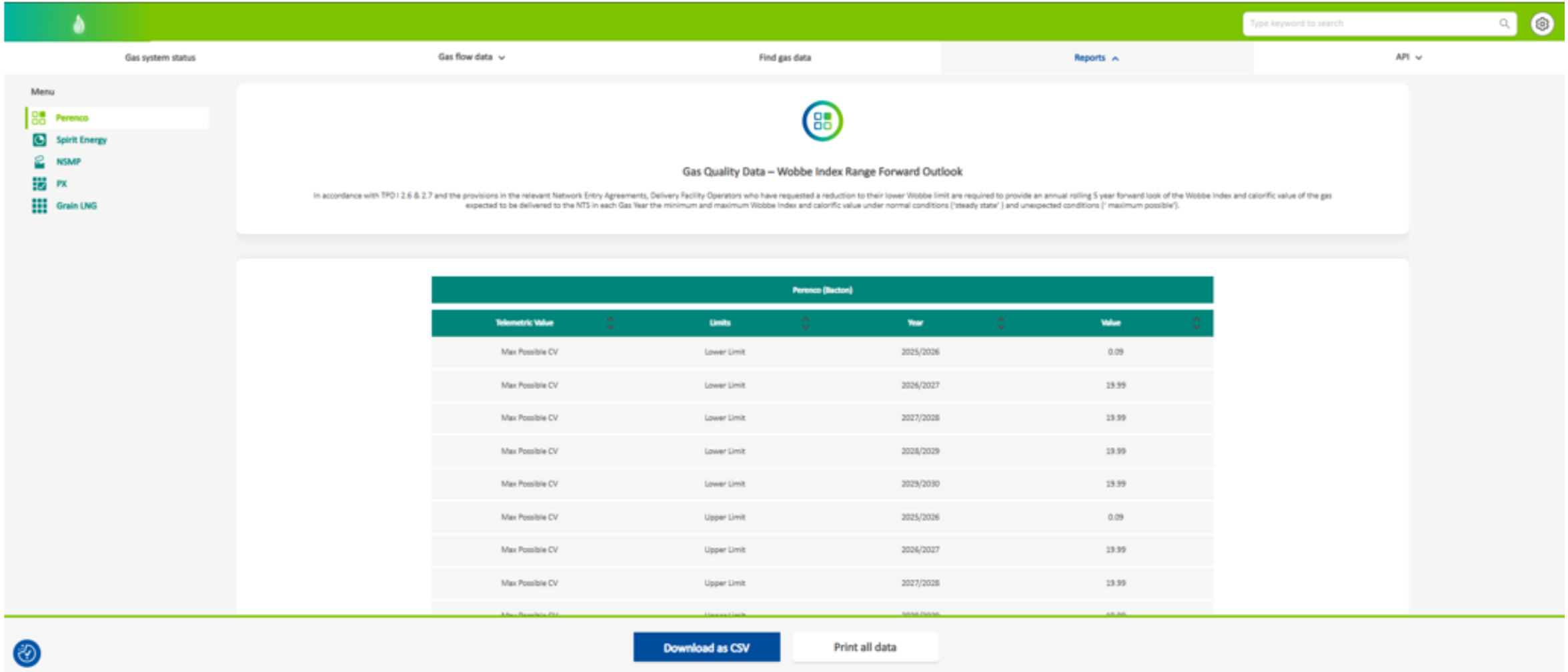
Historical Data Report



Wobbe Index Range Forward Outlook Report



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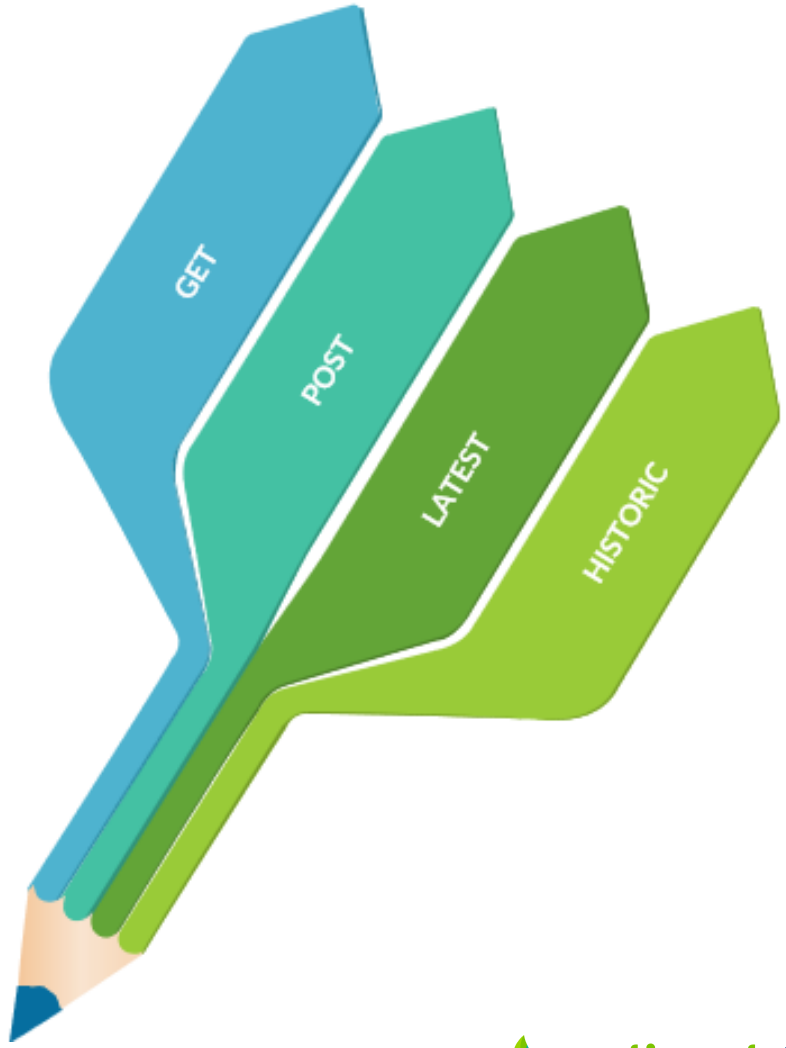
Requesting Data from Gas Quality Data APIs

GET

The GET method is used to retrieve information from the server.

POST

The POST method is used to create a new resource on the server.



Using REST APIs

There will be Two distinct URLs that will be able to be called to retrieve Gas Quality Data from National Gas.

The Latest Data URL will be a GET Function to fetch the latest 12 min worth of Gas Quality Data

The Historic Data URL will be a POST Function to help to download Historic Gas Quality Data from the last 3 years

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Gas Quality Data – FAQs

🧩 **Frequently Asked Questions**

When does this new feature go live on the National Gas Data Portal?
This feature will be implemented on 15 September 2025. There will be no impact to other aspects of the Data Portal and there will be no downtime during business hours.

When will we have access to use the new Gas Quality Data APIs?
You will have access to use the new Gas Quality Data APIs from 05:00 hours on 15 September 2025.

What supporting documentation will be available?
An easy-to-follow step by step guide will be available via a link on Gas Quality Data landing page to assist navigation through the new features. If you know anyone else who would benefit from this documentation, please email Box.OperationalLiaison@nationalgas.com.

What support will be available to users?
There will be enhanced support available for 4 weeks post go live. After this period, if you experience any issues or have any questions, then please continue to email Box.OperationalLiaison@nationalgas.com as per the normal process.

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Ali Tann

Operational Delivery Manager
National Gas

Capacity Auctions data entry errors

In recent months we have seen an increase in the number of capacity auctions errors

- The purpose of this section is to:
  - highlight the importance of entering correct capacity auctions data
  - clarify the possible consequences and process to follow, if a mistake is made
  - encourage the use Gemini's Bid Validation Parameters as a preventative measure

As a reminder of the context....

- Gemini will automatically process bids which are in line with system parameters
- We do not validate or check bids prior to processing
- Correct data input is the responsibility of Users under UNC

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Possible consequences and process to follow

The consequences of entering incorrect bid information may include:

- Unnecessary charges generated from erroneous quantity or price entries
- Overrun charges being applied due to insufficient capacity
- Capacity being unavailable to other Gemini Users

The process to follow if a mistake is made:

If spotted *prior* to the bid window closing, use the Modify/Withdraw functionality in Gemini

If spotted *after* the bid window has closed and not due to a technical issue, the allocation will stand

In the event of a *technical issue* which prevented access or a bid being entered/amended/withdrawn …

Take screenshots of the error message, bid details etc → Raise a Gemini Service Ticket asap, note the ref. → Contact NCC or the Capacity Auctions team

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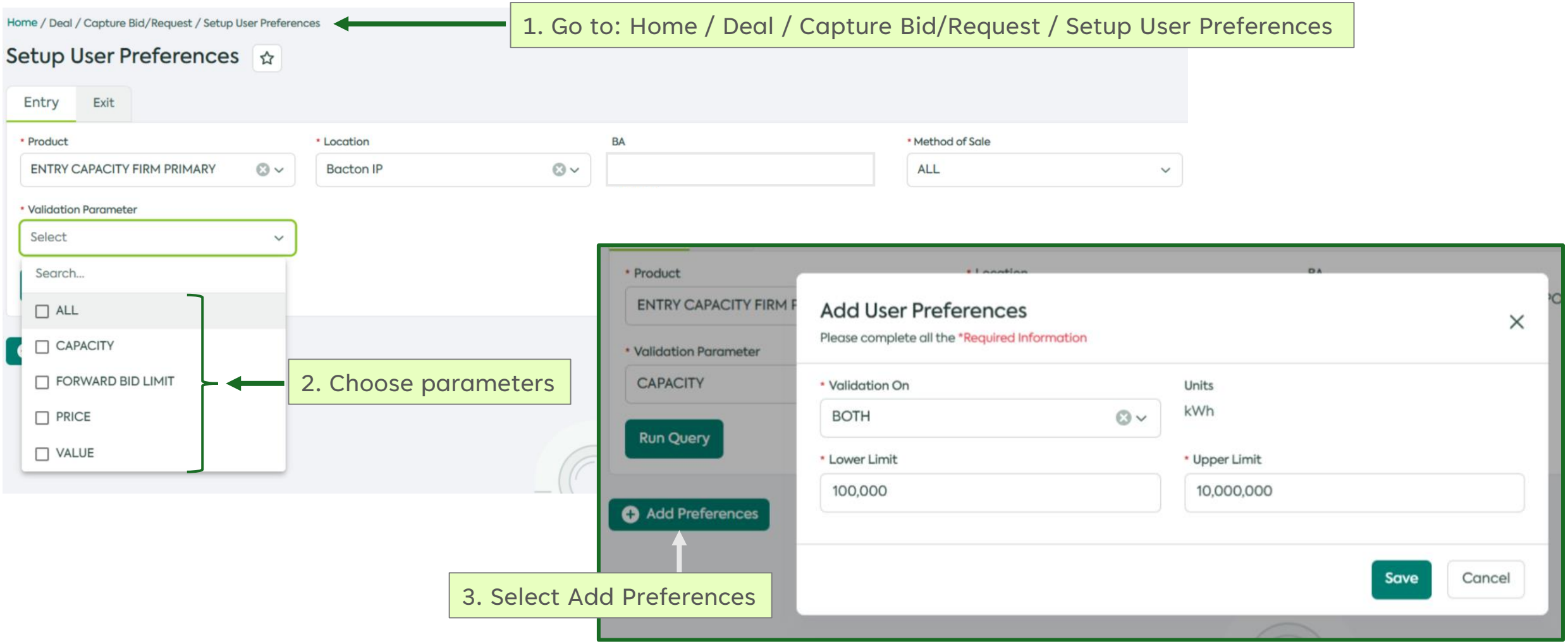
Gemini Bid Validation Parameters (BVPs)

In Oct-21, mandatory BVPs were introduced as a preventative measure (UNC0745S)



How to get in touch

We are here to help !

The Capacity Auctions team can be contacted during working hours

- by email: capacityauctions@nationalgas.com
- by phone: +44 (0)1926 568057

For Gemini issues

- use Gemini functionality to raise a Service Ticket
- contact servicedesk@xoserve.com

The National Control Centre can be contacted outside of working hours

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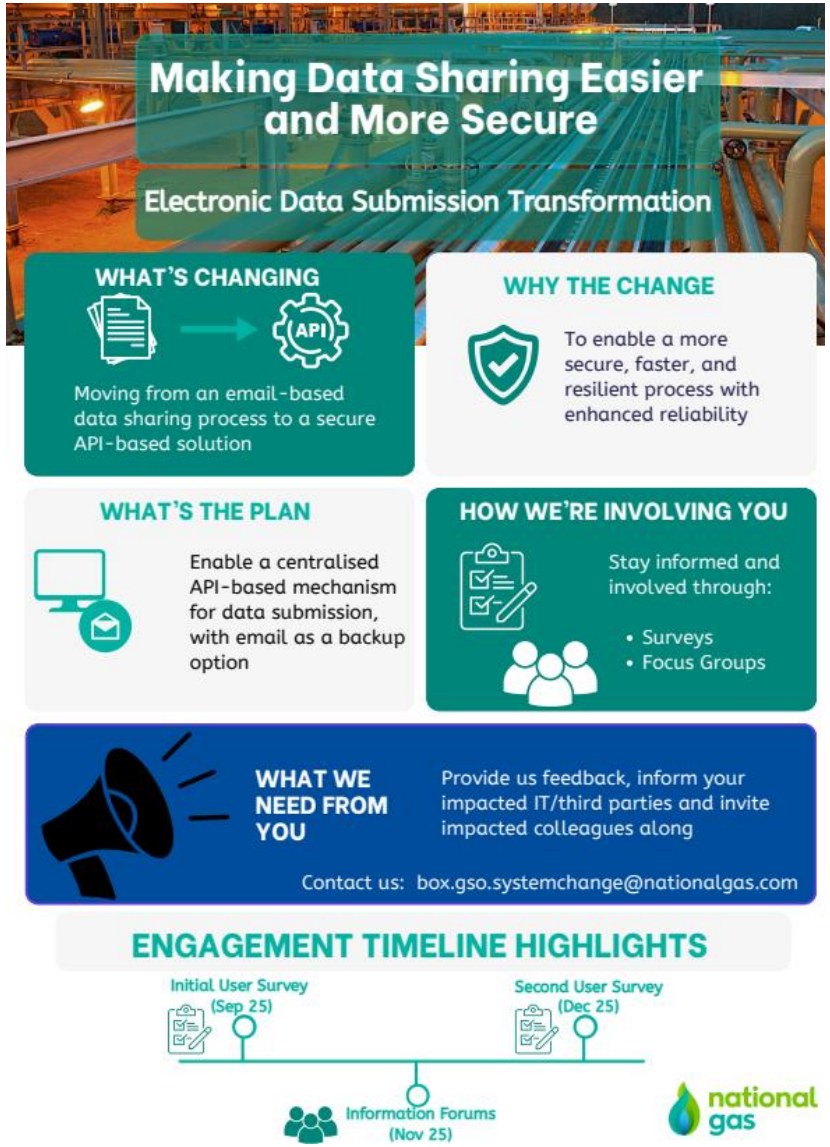
Max Chapman

Ops Liaison & Business Delivery Manager
National Gas

Electronic Data Submission Transformation



We have sent out a survey to NTS Direct Connects and relevant shippers, if you are impacted, please fill in the survey before 19th September 2025.

National Gas - Electronic Data Submission Transformation

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Thank you for attending today's NGEF!

We look forward to seeing you in person on October 23rd for 'Dynamics of gas this Winter'

Location: Institution of Mechanical Engineers, One Birdcage Walk SW1H 9JJ London.
Time: 09:30-13:00