



Gas Operational Forum

MS Teams

22nd February 2024

Will start at 10:02am



Introduction & Agenda

Nicola Lond

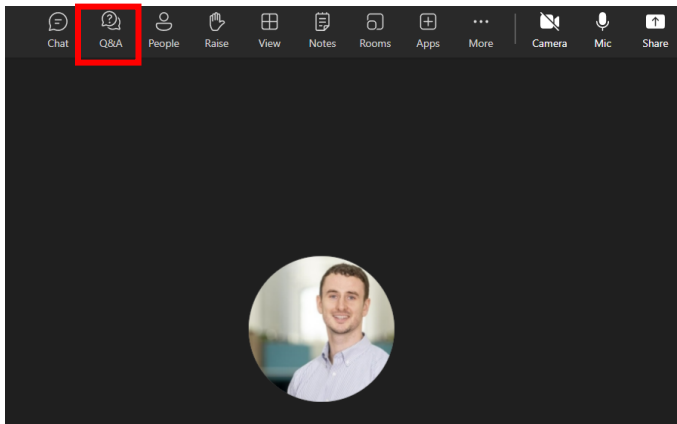
Operational Liaison & Business Delivery Manager

Housekeeping for Forum

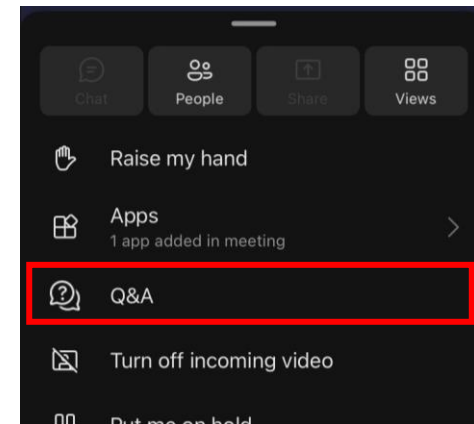
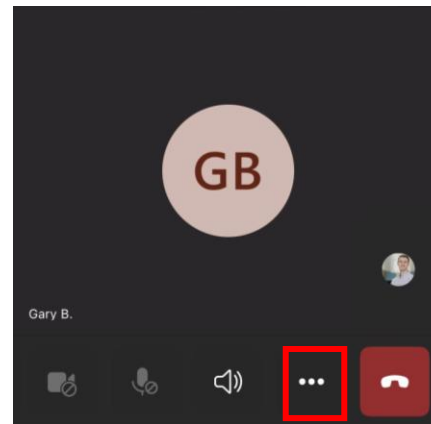
- For Microsoft Teams participants;
- Attendees will be automatically muted on dial-in and cameras will be unavailable.
- We have included some time to answer questions following the presentations.
- You can ask questions **via Teams – Q&A**



Laptop



Mobile



Agenda

Welcome and Introduction	Nicola Lond – Operational Liaison & Business Delivery Manager	10:02
Operational Updates	Ffion Davies-Cale - Head of Operational Delivery	10:05
Incentive Performance	Anna Stankiewicz– Principal Incentive Performance Management Analyst	10:15
Gemini Sustain Plus Programme	Bill Goode – Business System Delivery Lead	10:35
The Political Landscape	Andrew Marsh – External Affairs Manager	10:50
General Updates	Nicola Lond – Operational Liaison & Business Delivery Manager	11:00
Close	Nicola Lond – Operational Liaison & Business Delivery Manager	11:05

Please ask any questions using **Teams**

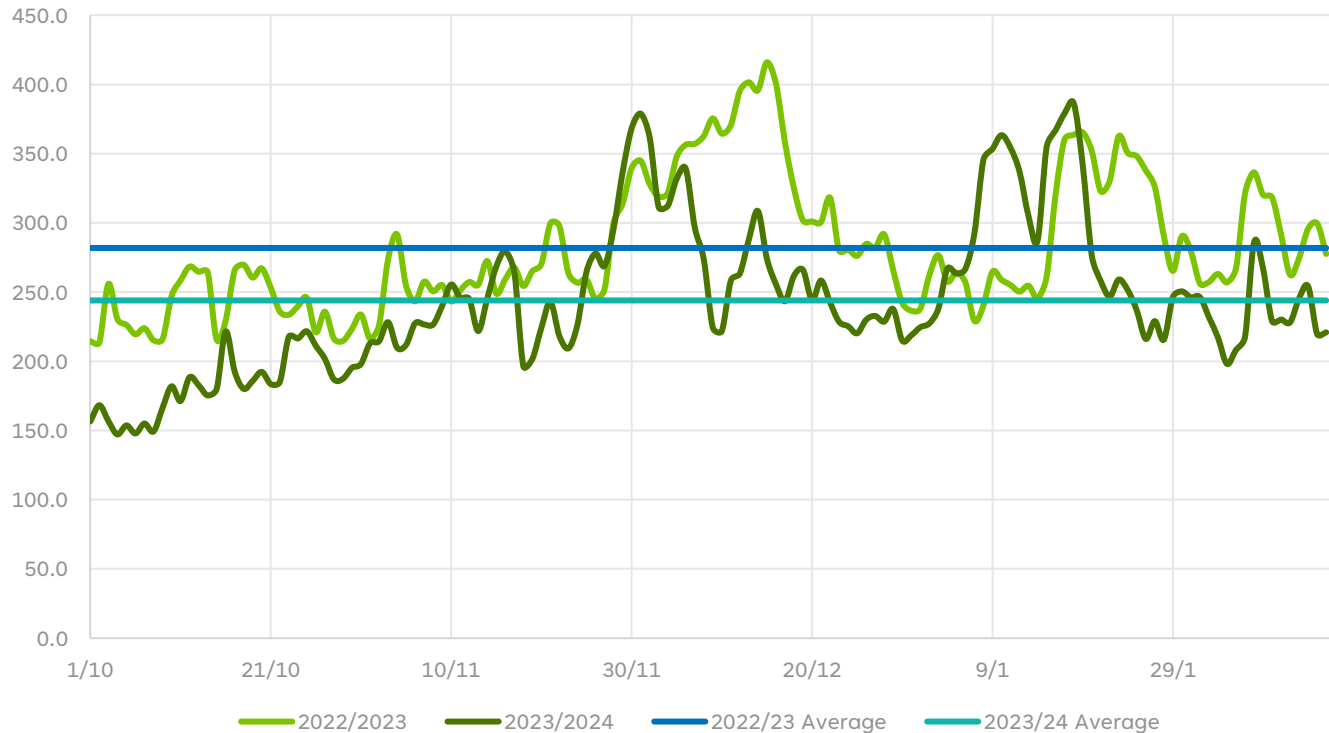
Questions will be covered at the end of each agenda section.

Operational Updates

Ffion Davies-Cale
Head of Operational Delivery

Winter NTS Demands

Winter Demand Comparison



Winter 2023/24 has been a very mild winter, with very few ‘cold’ days.

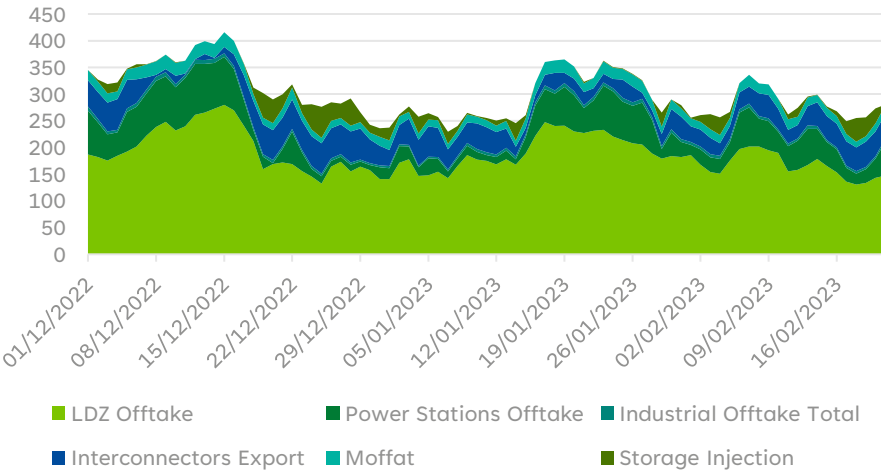
Comparing 2022/23 with 2023/24, this year has been significantly lower demand – with average demand being 40mcm/d less

There has been 27 days where total NTS gas demand has been <200mcm/d. Compared to only 1 last year and 3 in 2021/22.

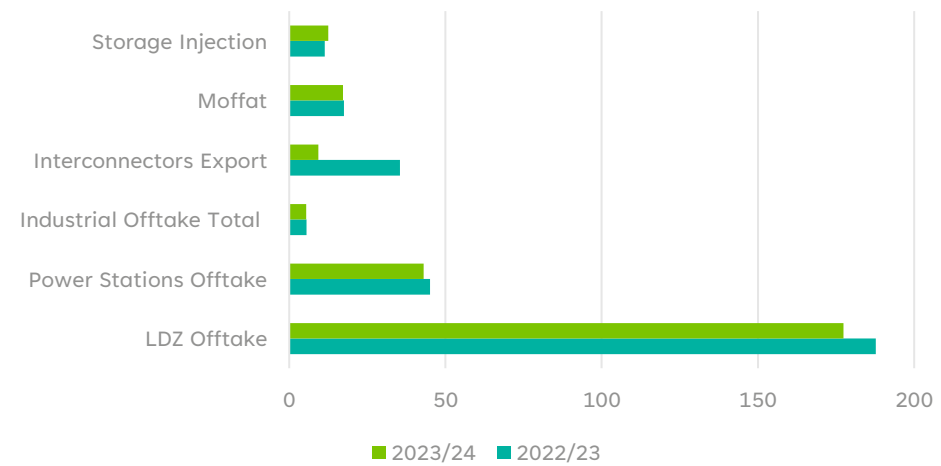
Demand over 350mcm/d – 10 in 2023/24 so far, compared to 18 and 5 days for the previous 2 years.

NTS Demands

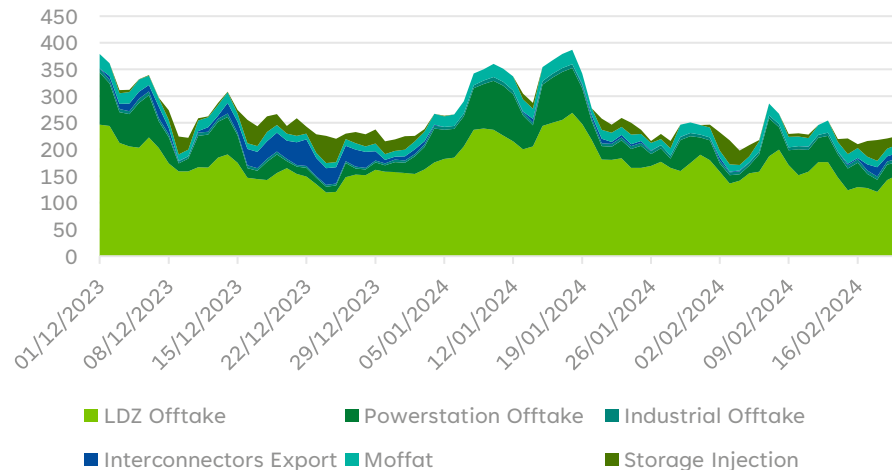
UK Gas Demand 22/23



Comparison of UK Demand



UK Gas Demand 23/24



In terms of the demand breakdown, the main difference has been interconnector demand; this being ~25mcm/d less in 2023/24 than 2022/23. There was a consistent demand for gas to Europe last summer, whereas there is a lot less in 2023/24.

However, the next largest demand reduction is in LDZ Offtake demand. This has been in the region of 10mcm/d.

Power Station demand has broadly been similar to last year's demand on average but there has been larger peaks.

UK and EU storage



Storage & LNG

Total LNG Stock and Percent Full
Snapshot as of: 20 February 2024

899 mcm
70% full

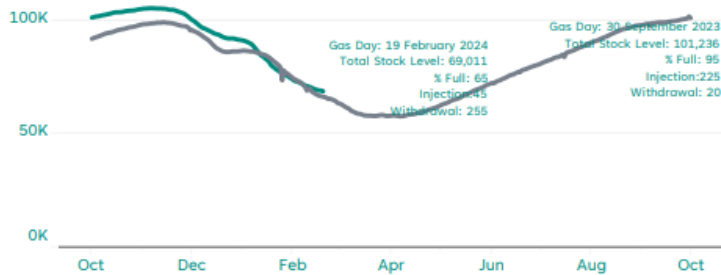
Total GB Storage Stock and Percent Full
Snapshot as of: 20 February 2024

1,753 mcm
53% full

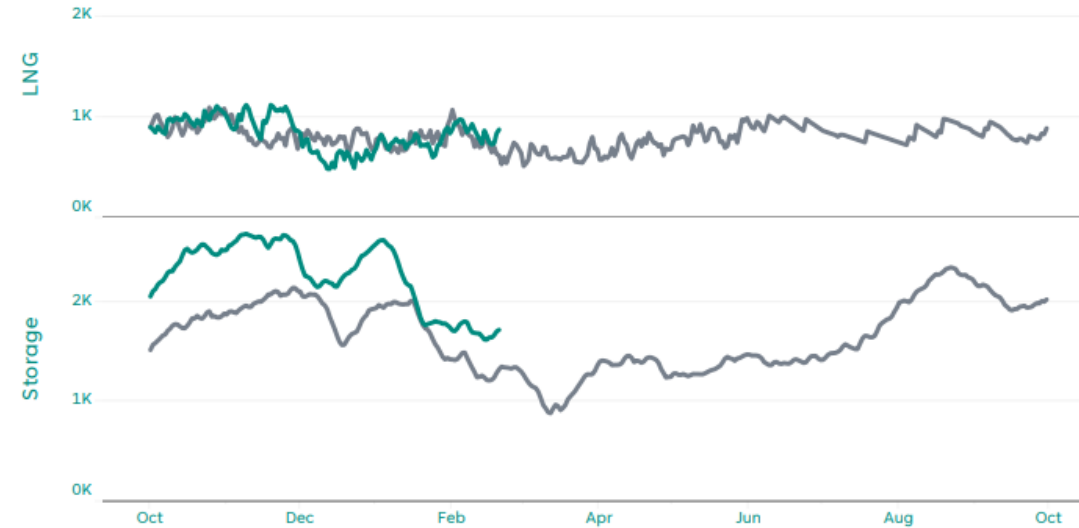
(LRS 39%)

(MRS 64%)

EU storage stock (mcm)



LNG & Storage stock (mcm)



LNG Arrivals

number of boats

IsleOfGrainLNG

#1

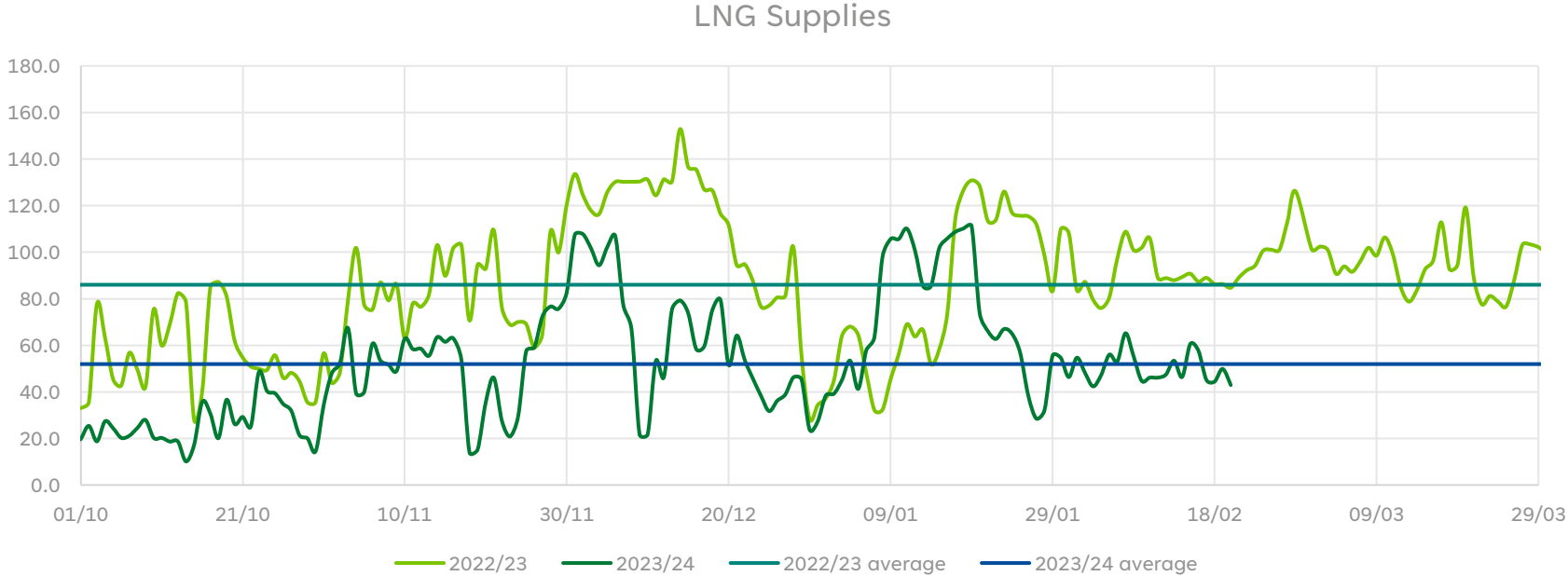
#1

21 Feb 22 Feb 23 Feb 24 Feb 25 Feb 26 Feb 27 Feb 28 Feb 29 Feb

LNG Imports

LNG supplies have continued to act as a flexible supply throughout the winter, increasing during colder demands.

LNG Deliveries have been less in comparison with last year which is likely largely driven by the reduction in demand. We have seen an average of 34mcm/d less.



Incentive Performance

Anna Stankiewicz
Incentives Analyst

Residual Balancing

- Customer value: enabling efficient use of network with minimum impact on the market and publishing hourly trade/linepack swing data
- Balancing supply and demand on the gas day to ensure the NTS remains within safe operating limits.
 - Linepack Performance Measure (LPM) target: 2.8mcm
 - Price Performance Measure (PPM) target: 1.5%
- Value = +£1.6m to -£2.8m

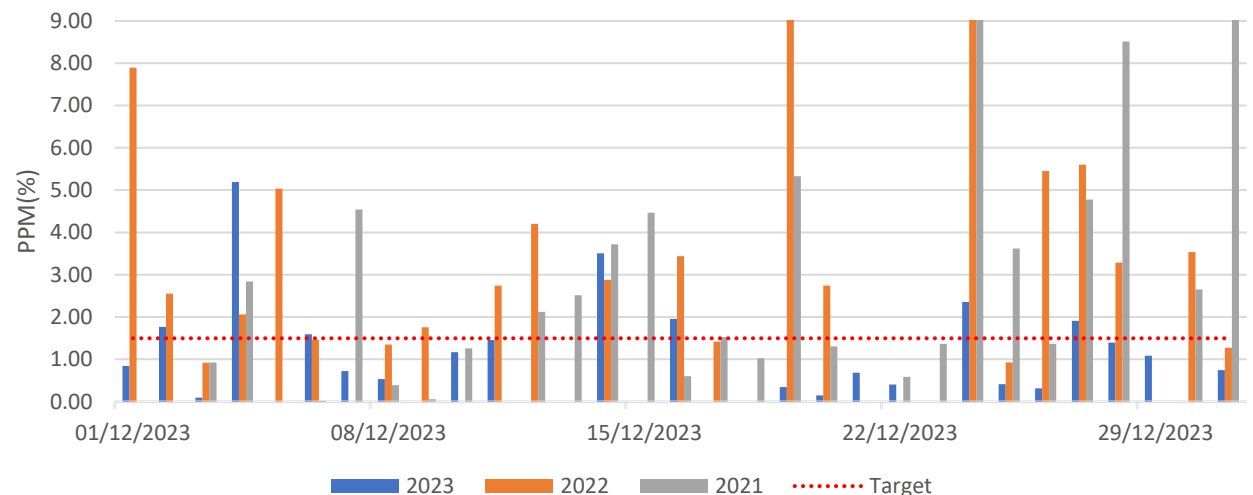
Q3 Performance

- Average Linepack Performance Measure (LPM): 1.8mcm (2.5 mcm last year).
- Average Price Performance Measure (PPM): 0.8% (4.6% last year).
- Traded on 184 out of 275 days or 67% of days. Last year's equivalent period was 202 out of 275 days or 73% of days.

SAP in Q3 FY



Price Performance Measure - December 2023



Maintenance

- Customer value: additional revenue opportunity due to maintenance alignment of planned outages
- We are incentivised to minimise the use of 'maintenance days' and making changes to the maintenance plan.
 - Changes – target 7.25% of the total maintenance plan days in the year.
 - Use of Days
 - Remote Valve Operation (RVO) – target 11 days
 - Excluding RVO – target align 75% of work
- Value = +£0.5m to -£1.5m

Q3 Performance

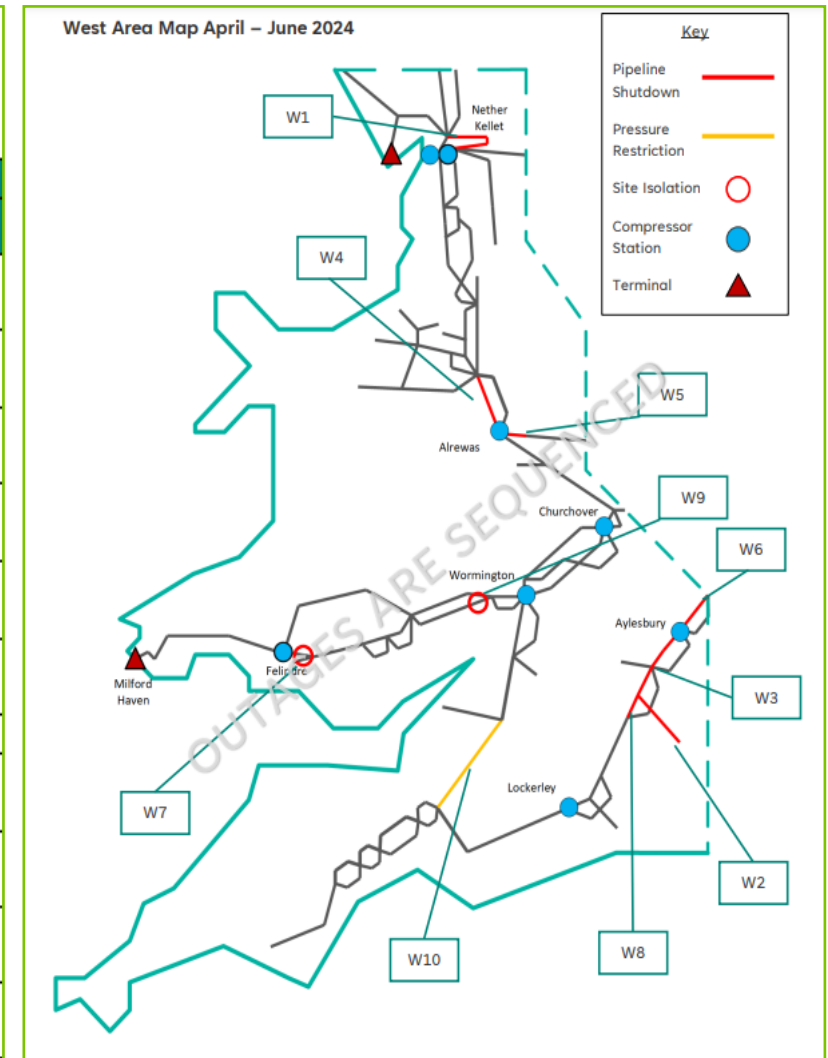
- Change – 242 days delivered, 0% change days
- RVO – 48 days, 1 maintenance day issued
- Excluding RVO – 194 Advice Notices issued, 100% alignment

We have introduced maps into this [Summer Outage Programme Draft](#) to help our customers better understand the location of our maintenance activities.

West Area

■ = Pressure Restriction ■ = Pipeline Shutdown

Ref N°	Pipeline	2024										
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
W1	Feeder 11 Lupton to Nether Kellet											
W2	Feeder 7 Nuffield to Winkfield											
W3	Feeder 7 Long Crendon to Nuffield											
W4	Feeder 4 Audley to Alrewas											
W5	Feeder 4 Alrewas to Edingale											
W6	Feeder 7 Old Warden to Long Crendon											
W7	Feeder 28 Cilfrew PRI											
W8	Feeder 7 Nuffield to East Ilsley											
W9	Feeder 2/23/28 Tirley PRI											
W10	Feeder 14 Pucklechurch to Ilchester											
W11	Feeder 2 Dyffryn Clydach to Dowlais											



Greenhouse Gas Emissions

- Customer value: improved local air quality, economic compressor venting strategy
- We are incentivised to minimise the amount of GHG that enters the atmosphere and consider the environmental impact of our compressor operations when venting
- Vented Emissions target:
< 2,897 tonnes
- Value = +£1.5m to -£1.5m.

Q3 Performance

- Vented Emissions to date: 1638 tonnes, (608 during Q3)
- Used 57% of allowance, the same as up to this point last year.
- Compressor running hours – 28,630, 32% decrease year on year.

Strategic Behavioural Focus

- ‘Think before you pressurise and vent’.
- Ownership of pressurising and venting decisions, think emissions alongside asset health and reliability
- Hand off between Operational Sites and Control room to best use the pressurised units.
- Future supply/demand/maintenance review before unit depressurised to make early compressor decisions, the effect of this has been a saving on unit static seal losses

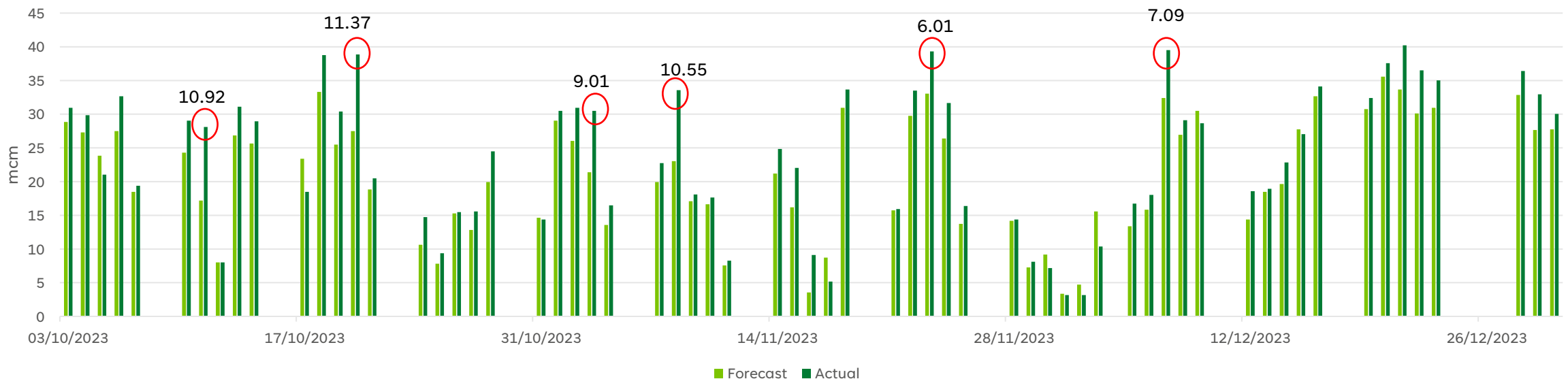
Demand Forecasting

- Customer value: make forecasts for the day ahead demand (D-1) to enable informed commercial decisions
- Target: 8.35 mcm/d (+1mcm DFSA)
- Value = +£1.5m / -£1.5m

Q3 Performance

- Average daily error of 6.76mcm in Q3 v 7.29mcm in Q2.
- DFSA = 0.08 in Q3 v 0.0 in Q2
- Average demand 231.39 in Q3 (last year 277.86mcm in Q3). Higher volatility at 15.1 in Q3 (last year 14.05 in Q3).
- Wind forecast changing impacting up to 10mcm daily.

Wind Forecast v Actual



Capacity Constraint Management

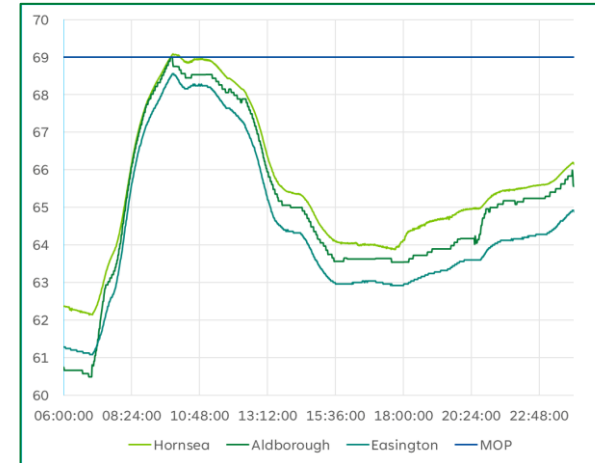
- Customer value: release of capacity up to and above our obligations and minimising the costs of constraints against a set financial cost target
- Target = £8.5m
- Value = +£5.2m to -£5.2m
- 14% scaling for revenues from Non-Obligated capacity
- Sharing Factor = 39% NG, 61% customers

Q3 Performance

- Non-Obligated Capacity released at a couple of key supply and demand points (circa £0.7m on Entry and £1.0m on Exit)
- No Bacton Exit non-obligated release requirement
- Emerging constraint risk has been managed through use of operational tools, planning and strategy.

Hatton compressor trip, Dec 2023

High supply levels on East coast due to cold day / high demand
Hatton trip resulted in pressures increased to max operating level



Outlook: Entry constraint risk at Easington supply terminal

What did we do?

- Network analysis to determine time to fail
- Swift onsite Operations presence – 3 units brought online
- Scotland configuration changed
- Lockerley brought online to support South West demand
- Issued REMIT to inform industry

What value has been added as a result?

- ✓ Customer impact (TFA) avoided as much as possible due to operational strategy and swift response
- ✓ Customer impacts considered and comms throughout with follow up.

Summary of performance

Incentive	Target	Performance up to Q3 FY
Residual Balancing	PPM: 1,5% LPM: 2.8mcm	PPM: 0.8% LPM: 1.8mcm
Maintenance	Change scheme – 7.25% Valve Operations – 11 days Non-Valve Operations – 75% alignment	Change scheme – 0% Valve Operations – 1 day Non-Valve Operations – 100% aligned
Greenhouse Gas	2,897 tonnes	1638 tonnes (57% of allowance)
Demand Forecasting	8.35mcm + up to 1mcm DFSA	7.72mcm + 0.0047mcm DFSA
Capacity Constraint Management	£8.5m	No costs incurred under the incentive structure

Timelines and more information

- Our quarterly incentive report will be published on our website by the end of February:
- <https://www.nationalgas.com/about-us/system-operator-incentives>
- Overall incentives end of year performance will be summarised at the June 2024 Gas Ops Forum.
- More information: [Gas Operator Incentives](#).

Contact:

- Anna Stankiewicz, Incentives Analyst (anna.stankiewicz@nationalgas.com)
- Darren Lond, Incentives Performance and Development Manager (darren.lond@nationalgas.com)

Gemini Sustain Plus Programme

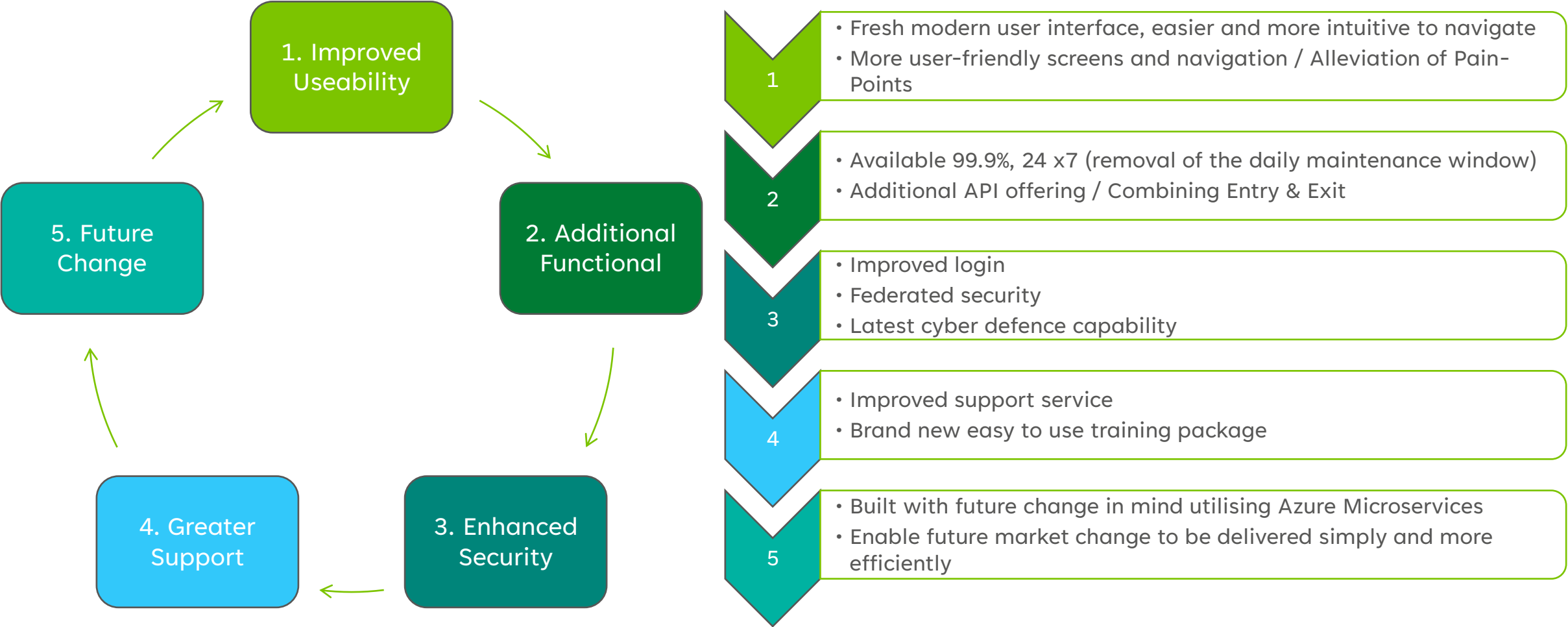
Bill Goode

Business System Delivery Lead

Background to Gemini Sustain Plus

- Gemini is a component part of the UK Link suite of applications. It manages essential gas market processes including Capacity Management, Capacity Trading, Commercial Balancing and Invoicing.
- The current system is c.20 years old, it has a technology base that has fallen behind the market in terms of flexibility and cost to run.
- Increased pace of change with Net Zero drivers such as hydrogen require the system to be more agile.
- Customer feedback and pain points from the industry has also driven the need to improve the current offering
- National Gas in conjunction with our partners Xoserve and Correla have commenced a 2 year programme of work called **Gemini Sustain Plus**

Outcomes Aiming to Achieve



Connectivity and Market Trials

Correla User Audit

- **This is currently in progress**, engagement of 85% of organisations, **it is key your organisation engages with the Gemini user audit**. If you need further information please email geminiengagement@correla.com .

Connectivity and Onboarding – 1 April to 31 July

- **This phase is mandatory for all Gemini users**. Connectivity details will be shared prior to this phase. Any organisation who don't participate in this stage will be **unable** to carry out any Gemini processes when the new system launches.

Market Trials – 3 June to 12 July

- During this period you'll have the chance to familiarise yourself with the new system before it launches. We highly recommend you take this opportunity to understand the new screens and features that will be delivered.
- Please register for market trials via the [link](#). **Deadline of 13 May 2024**.

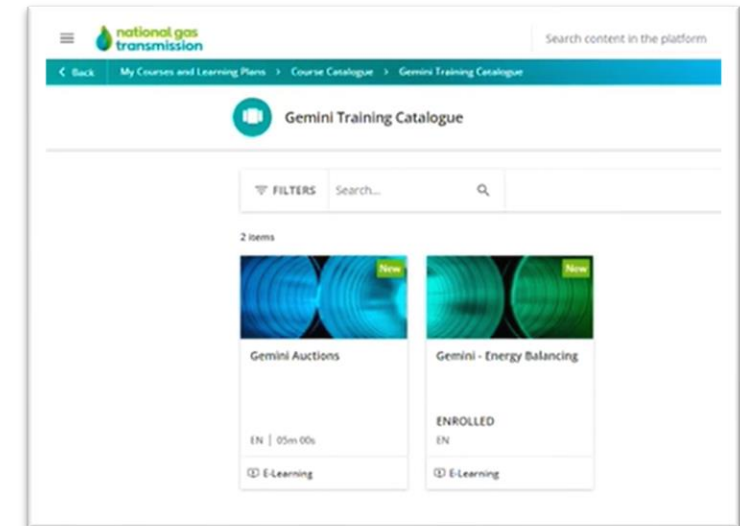
Training & Implementation

New Training Package

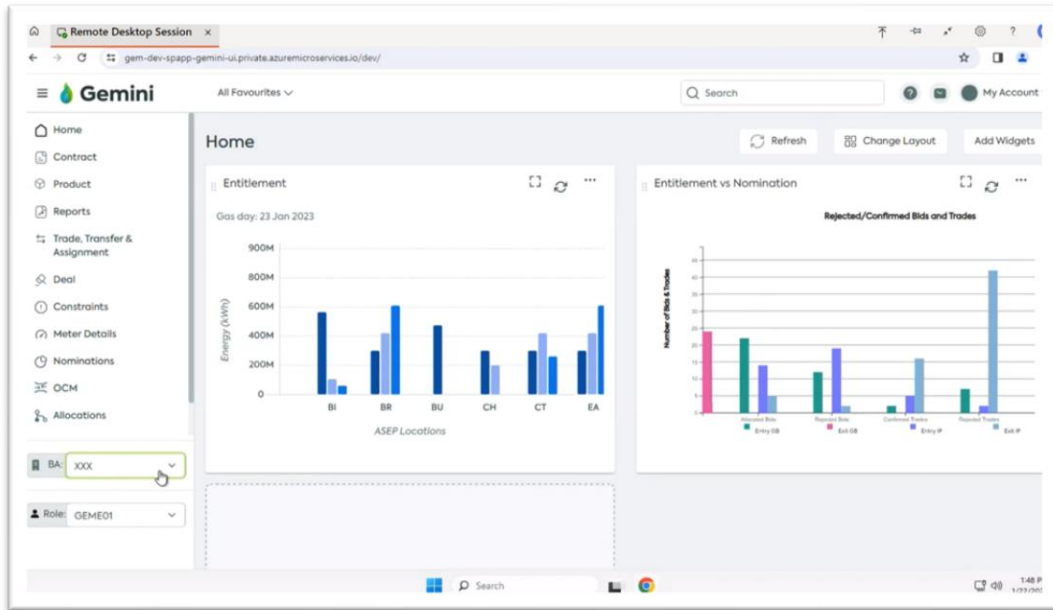
- There will be brand new on-line training package created called the **Learning Management System (LMS)**. The new LMS will house e-modules that will cover the various Gemini processes that are undertaken by the industry.
- This will include 2 mandatory modules which will cover the basic navigation of the training solution and the updated Gemini User Interface (UI) common features
- These will be ready to be used prior to Market Trials commencing.
- Examples of training package can be found during the January 2024 Focus Group

Implementation

- **Extended outage required over the weekend of 7th and 8th September.**
Further details will be shared at future Gemini Focus Groups



Examples of New Screens



Home Page

- Modify your landing page, with up to 3 widgets
- Reduction in sub-menus
- Access BA Code and User Role
- New messaging and alert notifications

New Features

- Entry and Exit toggle functionality
- New search functionality
- Ability to save Favourites
- Sort, pinning and hiding columns

The screenshot shows the Gemini 'Setup User Preferences' screen. It includes a sidebar with navigation options (Home, Contract, Product, Reports, Publish, Deal, Constraints, Meter Details, Nominations, Invoice) and a main content area with fields for Product, Location, Method of Sale, and Validation Parameter. A 'Run Query' button is visible.

BA: TRA
Role: SUPERUSER

Focus Groups

- Programme has set-up a dedicated series of Gemini Sustain Plus Focus Groups, these have been well attended by the industry.
- Material from the three previous focus groups is available, along with demonstrations of the new functionality, and the responses to the Q&As.
- The next Gemini Sustain Focus Group will be held on Monday 18th March and the agenda will cover:
 - Programme progress updates
 - Training update
 - Onboarding update
 - Market Trials
 - System Demo
 - API and security
 - Q&A
- <https://www.xoserve.com/change/investment-change/gemini-changes-overview/gemini-sustain-plus/>

Thank you

Any questions

bill.goode@nationalgas.com



A View of the Political Landscape

Andrew Marsh
External Affairs Manager

Gas is a global policy concern



Continuing to engage with Government on current gas resilience and our hydrogen future



- Engagement on energy resilience and flexibility
- Hydrogen business models – enabling an effective market
- Enabling hydrogen blending
- Carbon capture and storage

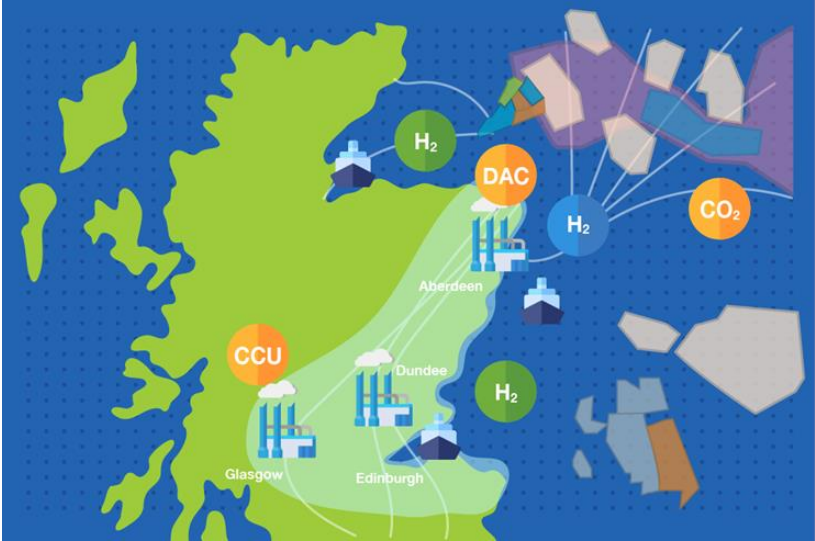
Continuing to work with Labour on policy development



“Through our National Wealth Fund, we will invest £1.8bn in upgrading ports to be ready to deploy renewables and capture decommissioning contracts; and in the Grangemouth industrial cluster, with a £1bn investment in CCUS and hydrogen.”

“Our British Jobs Bonus – worth up to £500m per year – will provide a capital incentive to winning bids in the Contracts for Difference auction to invest, create jobs and build their manufacturing supply chains in industrial heartlands and coastal communities with historic and current ties to fossil fuel production like the North of England and North East of Scotland.”

The importance of devolved government and regional engagement





Western Gas Network Project

Site Location Plan:
Felindre Compressor Station &
Altwern AGI



Key

-  Gas Site
-  Existing Gas Pipeline

- Engagement with the Scottish Government on both hydrogen and carbon capture & storage
- Support for the Scottish Cluster project
- Welsh Government decarbonisation strategy
- Western Gas Network project
- East Coast Hydrogen delivery plan launch and Future of Bacton event
- Supporting Hydrogen projects in gas distribution network areas

General Updates

Nicola Lond

Operational Liaison and Business Delivery Manager

Publication highlights

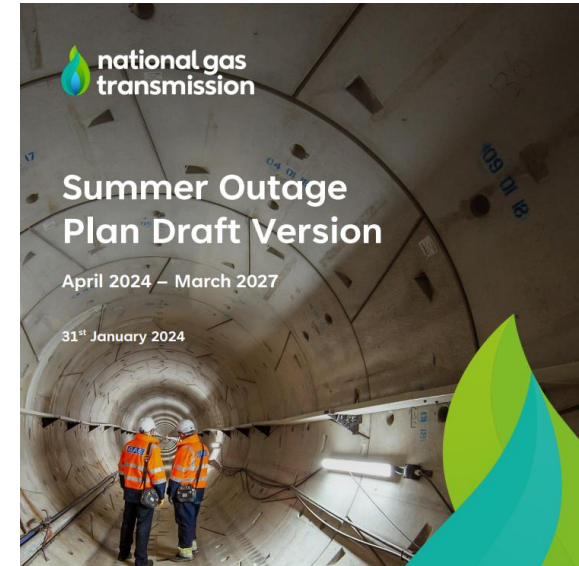
Maintenance Plan

The draft Summer Outage Plan is now published: <https://www.nationalgas.com/data-and-operations/maintenance> Exit customers have been notified directly of impacting maintenance through the individual notice process. If there are any questions at any time regarding NTS outages, contact ntsaccessplanning@nationalgas.com

Data Triage historic Data

Based on recent requests for historic data through our Data triage process we have published a file with historic archived data based on the popular data requested. This covers the period of April 2015 to December 2020 and includes data items such as Linepack, CWV, NTS Demand, SAP, LNG & Storage.

[Gas Transmission Open Data Requests | National Gas](#)



Hydrogen Updates

- **Blending Commercial Framework**

- Industry review group – 0849R

<https://www.gasgovernance.co.uk/0849>

- Next meeting is 28th February join through this link

[0849R Workgroup 28 February 2024 | Joint Office of Gas Transporters \(gasgovernance.co.uk\)](#)

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. 

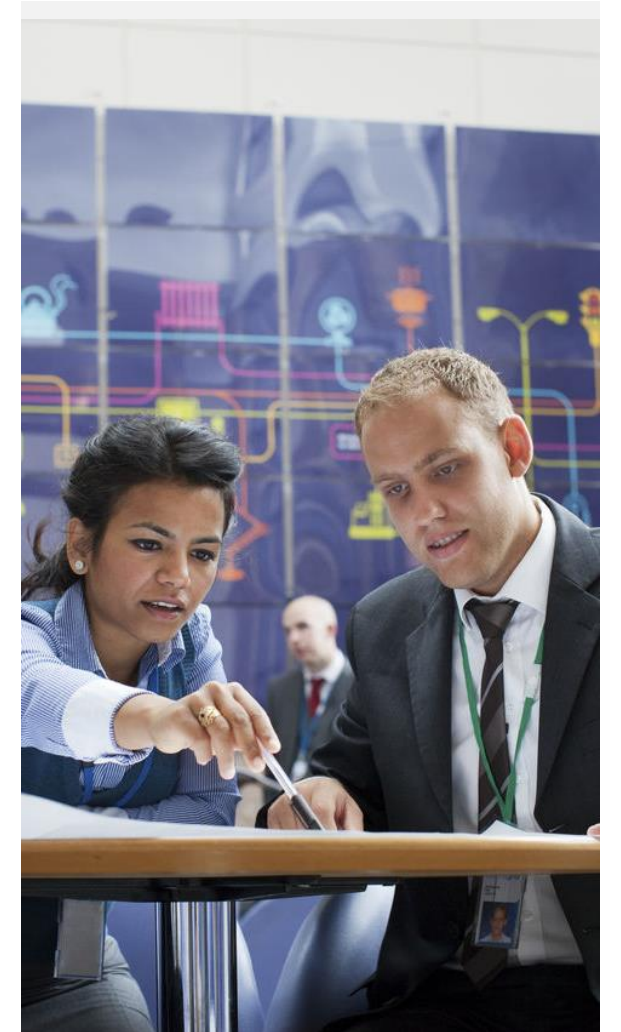
How to contact us

	Operational Liaison Team	Box.OperationalLiaison@nationalgrid.com
Nicola Lond	Operational Liaison Team Manager	Nicola.j.lond@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](#)

[National Gas Transmission](#) | [Gas Operational Forum](#)



2024 Operational Forum Programme

The Clermont Hotel
 Charing Cross
 London
 WC2N 5HX

The forums will be hybrid via Microsoft Teams and at the Clermont Hotel, London as shown:

Jan 25th	Feb 22nd	Mar 21st	Apr	May 16th	Jun 20th	Jul	Aug	Sep 19th	Oct 17th	Nov 21st	Dec
Clermont & Online	Online Only	Clermont & Online	X	Online Only	Clermont & Online	X	X	Online only	Clermont & Online	Online only	X
Future Focus		Maintenance Focus			Winter Review/ Summer outlook				Winter Focus		
✓	✓	↑	Operational overview/ interesting days/topical content/Q&A								

Online & In-person

Registration Open for March Operational Forum:

<https://ngt.ticketbud.com/gas-operational-forum-march-online->

<https://ngt.ticketbud.com/gas-operational-forum-march-in-person--1fe32d1e22d3>

We look forward to seeing you. Please use your ticket if you register in person.

Q&A



Thank you



Information For Reference



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@nationalgrid.com
National Gas Transmission Website	www.nationalgas.com
Maintenance Planning	www.nationalgas.com/data-and-operations/maintenance

Britain's Gas Explained

Now available in online library

April 2023



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

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

Modernising energy networks data

We're modernising data from the energy networks, bringing together gas and electricity networks to address data 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](#)

Gas Data Portal Updates

1

New Summary Page on Gas System Status

- We are working on a new Summary Page which includes key data points from Gas System Status
- Feedback from Users has been that it would be useful to have key data items on a single page
- We will be releasing the Summary Page soon – Planned for February release – in testing currently



2

API Upgrades

- We are continuing work with our API upgrades and will be looking to release the new RESTful APIs in Spring 24. More to follow.
- The existing SOAP APIs will still be available for use for the foreseeable future in parallel.

3

Gas Data Portal User Community

Please join our Gas Data Portal User Community where you can be the first to know about:

- Transformation Project Progress Updates
- Polls/Surveys for future Gas Data Portal changes
- Upcoming planned outages
- High priority Incident updates



<https://forms.office.com/r/w8sxn33rXF>

4

Bookmarking our URL

- Our new Gas Data Portal has been live since July 23. Please bookmark the latest url as we are starting work to remove the old url. <https://data.nationalgas.com/>

