

September Ops Forum

19th September 2024

Will start at 10:02am



Introduction & Agenda

Rachel Hinsley

Operational Liaison & Business Delivery Manager

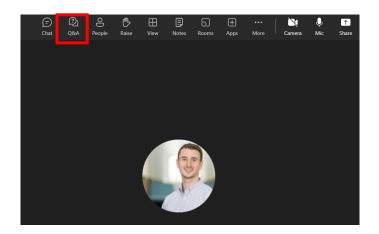


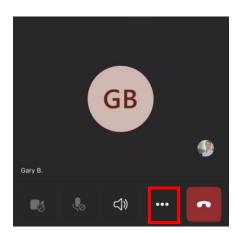


Housekeeping for Forum

- 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

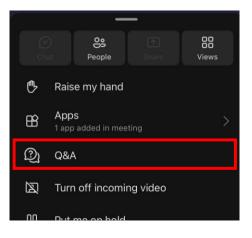








Mobile



Agenda

Welcome and Introduction	Rachel Hinsley – Operational Liaison & Business Delivery Manager	
Operational Updates	Luke Benson- Access Planning & Short Term Risk Manager	10:03
Gemini Sustain Plus - Update	Bill Goode – Business System Delivery Lead	10:15
Exercise Fahrenheit	Alex Potter – Lead NEC Specialist	10:30
Incentive Update	Ebikedou Cliff-Ekubo – Senior Commercial Incentive Analyst	10:40
The System Operator	Rachel Hinsley – Operational Liaison & Business Delivery Manager	10:55
General Updates	Rachel Hinsley – Operational Liaison & Business Delivery Manager	11:20
Close	Rachel Hinsley — Operational Liaison & Business Delivery Manager	11:30

Please ask any questions using **Teams**Questions will be covered at the end of each agenda section.

Operational Updates

Luke Benson

Access Planning & Short Term Risk Manager





NTS Supply/Demand



Trends - NTS Supply

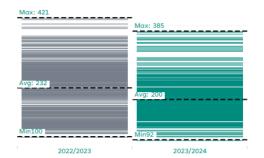
INTERNAL CONFIDENTIAL

NTS Avg Supply/Demand 2023 vs 2024

NTS Supply



NTS Supply Gas year to date
End of day values (mcm) for gas year to date and
equivalent time period in previous gas year



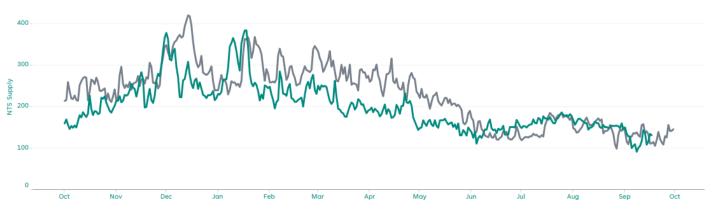
NTS Supply/Demand Summer Averages

- June 142 mcm/d
- July 162 mcm/d
- August 146 mcm/d
- September 112 mcm/d

232 mcm/d vs 200 mcm/d

NTS Supply vs previous year

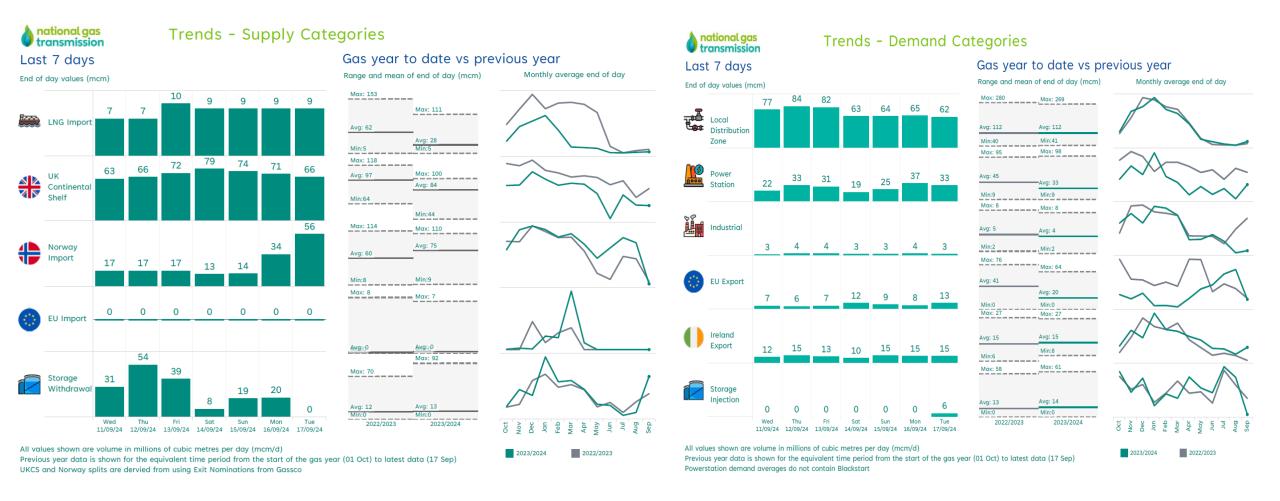




Lowest Supply/Demand Seen:

• 92 mcm/d - (09/09)

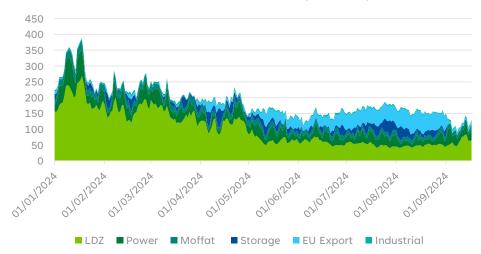
NTS Supply/Demand Breakdown



National Gas Transmission |

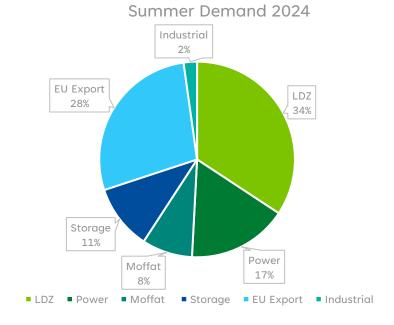
NTS Demands

UK Gas Demand 2024 (mcm/d)



July - September Demand Comparison

(mcm/d)	2023	2024	% change		
LDZ	48.84	52.29	+ 7%		
Power	41.34	25.28	- 38%		
Moffat	25.15	12.75	- 49%		
Storage	12.12	16.40	+ 35%		
EU Export	12.98	42.48	+ 227%		
Industrial	4.24	3.38	- 20%		



LDZ

- Small increase due to below seasonal temperatures in September
 Power
- Increase in electricity import and wind generation
 Moffat

Lower seasonal demand

• Lower seasonal demand

Storage

Increased stock levels due to reduced UK demand

EU Export

- Increase in European prices NBP TTF resulting in large increase in EU Export Industrial
- Muted recovery in industrial gas usage

European Export





European Summer Export

	2023	2024	% change
June	10.94	26.28	+ 140%
July	20.87	47.89	+ 129%
August	15.35	54.4	+ 254%
September	1.72	10.88	+ 532%

Consistently strong NBP-TTF prices seen over July and August.

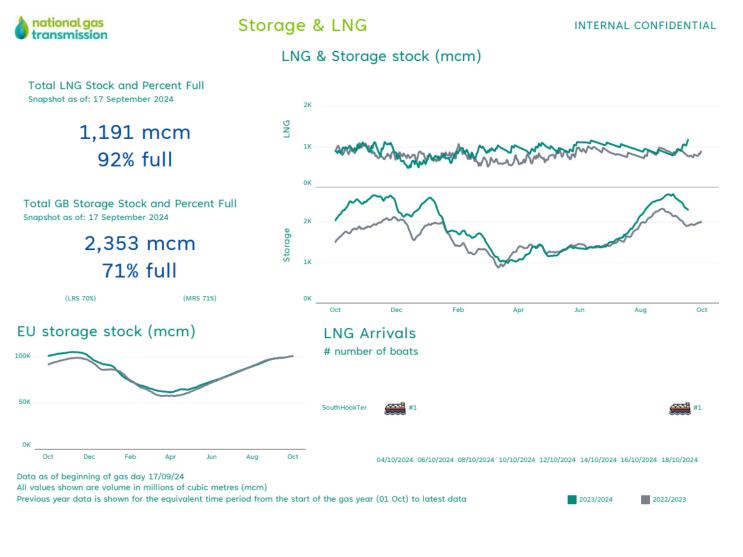
July

- Low UK demand widens NBP-TTF gas spread
- Increase in EU Storage due to European preparation for planned outages in September

August

 Geo-political events saw large increases of export in August due to European supply risk widening spread further

GB & European Storage



Storage

- GB Storage target stock levels achieved earlier than expected
- EU storage levels well above 5 year average over the course of summer
- EU reached 90% target two months ahead of schedule

LNG

UK Cargoes - June to September 2023 - 17 2024 - 10

Asian LNG price hits new high in June creating LNG premium continuing through July.

Heatwaves across Asia

August

Geo-political events close inter-basin price spreads between Asian and Europe in early August before supply risks ease and spreads widen again

National Gas Transmission | September Ops Forum

Maintenance Period Review

30

Different pipeline outages have started

41

Different compressor outages have started

A small number of outages continue throughout the winter months to maximise delivery.

Key updates since March

- Outage for commissioning of new compressor unit at Hatton was completed. There is some final work to be carried out before commissioning testing can commence over the winter and into next summer.
- Investment works at Kings Lynn have progressed well and due to finish on time.
- Decommissioning of Huntingdon unit A has started. The unit will be transported to Spadeadam and used in the next stage of FutureGrid.



FutureGrid Compression

Maintenance Period Review

West Area – Tirley

- Investment work at Tirley PRI to modify filter streams completed within 4 weeks, coinciding with period of low LNG entry flows & terminal outages.
- Modification to isolation valves will allow filters to be safely maintained without restricting flow through site.

Scotland & North Area

- Defect remediation and telemetry work at Teesside AGI completed within Teesside terminal outage period to avoid risk to entry customers.
- Investment work at Kirriemuir Multijunction to replace asset using STATS Remote Tecno Plug progressing well, with significant methane emission reduction from not recompressing the pipeline.



Construction work at Tirley PRI, June 2024



Remote Tecno Plug insertion, courtesy of STATS Group

Gemini Sustain Plus – Update

Bill GoodeSystem Business Delivery Lead





Agenda

- Implementation Update and Programme Timeline
- Market Trials Update
- Training and Connectivity
- Future Comms and Next Steps
- **Q&A**

Gemini Sustain Plus Update

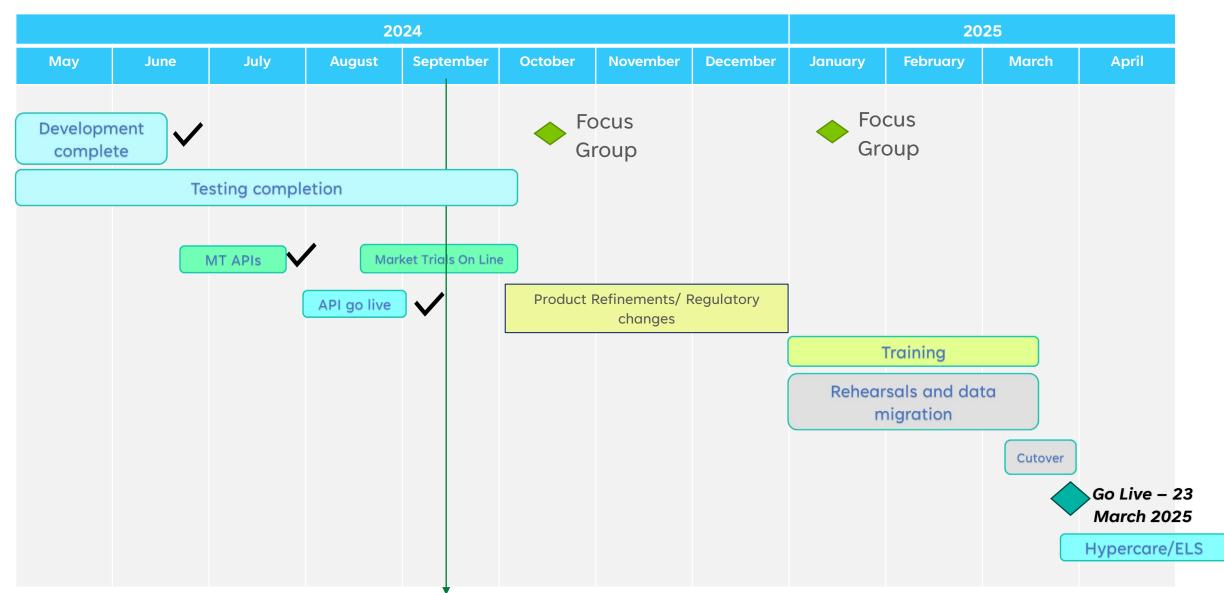
Implementation Date Update

At DSC Change Management Committee on Wednesday 10th July 2024, the Programme reported that there would be a delay to the go-live date of Gemini Sustain Plus.

A new implementation date has been agreed and communicated to the industry which balances the integrity of the new solution and the potential risk to the industry of a winter implementation.

As a result, the Gemini Sustain Plus programme will now go live on **Sunday 23rd March 2025** with a contingency date of **Sunday 6th April 2025**.

Gemini Sustain Plus Timeline



Market Trials Overview

- Market Trials for Gemini online screens started from 19th August and will continue until 4th October 2024 (7 weeks)
- 169 users across 75 organisations have successfully logged into Market Trials during the period to date
- There have been over 35k screen hits.
- There have been 202 tickets raised with 20 currently open.
- There is a weekly call with Market Trial participants every Friday where key learnings are shared

Market Trials

Online Market Trials

- Only 2 weeks left of Market Trials, if you have registered and haven't got involved yet, please contact geminiengagement@correla.com
- Thank you to those organisations that have engaged and undertaken Market Trials.
- Feedback very important to us, there is a simple way to provide direct feedback is via this <u>Link</u>

API Market Trials

- Took place 17th June and finished on 12th July (4 week period)
- 48 Organisations participated, 230K + API hits
- New API gateway went live on 5th August
- **For Information**, latest API specification document, API URL reference, Swagger and Postmaster files can all be found here https://www.xoserve.com/news/gemini-sustain-plus-api-implementation/

Training and Connectivity

Training

- BETA version of the training modules have been made available to all Market Trials participants;
- All training modules will be rolled out in early 2025.
- Positive feedback received on the training modules from Market Trials participants, 24/25 of the e-modules have been rated 5 stars.

Onboarding

- Onboarding (Personal Accounts) onboarding to Gemini system invites have been shared to all Gemini Users. If you haven't received the invite, please email geminiengagement@correla.com if you still yet to receive onboarding invite.
- Onboarding (API Accounts) API credentials have been shared with Nominated lead. If you haven't received your API credentials or have any other queries, please email: geminiengagement@correla.com

Connectivity

- URLs have been shared via the UKLink distribution list and via the nominated leads from the Gemini User Audit.
- 77.5% of Industry participants have confirmed they can reach both our Market Trials and Production landing pages.
- User Agreements/access to multiple short-codes Please contact <u>customerlifecycle.spa@xoserve.com</u> to arrange, or if you would like to check you have the appropriate agreement(s).

Future Communications

Change Pack & Screen Pack

- Gemini Sustain External Screen Pack will be released by early October 2024
- Detailed Design Change Pack was published early 2024. Useful guide to all the changes being made: https://www.xoserve.com/media/mechpwhx/xrn5564-design-change-pack-chmc-updated.pdf

Next Focus Group

- The next Focus Group session will be on **21st October 2024**. Key areas on the agenda will be a deep dive on outputs and key learning from Market Trials and details on readiness activities (e.g. training)
- 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/

Any Questions

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



Exercise Fahrenheit

Alex Potter Lead NEC Specialist





Exercise FAHRENHEIT 2024

- Minimise Flows
- **Public Appeals**
- Sufficient time spent on Stage 3 Isolation



Industry Briefing Note available on the National Gas Website at the following link:

Exercise FAHRENHEIT IBN

Exercise FAHRENHEIT

Thursday 10th 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)

Friday 11th 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)

Wednesday 16th October Isolation

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

Incentive Update

Ebikedou Cliff-EkuboSenior Commercial Incentive Analyst





Content

01.	Incentives Introduction
02.	Constraint, Capacity and Management (CCM)
03.	Maintenance
04.	Demand Forecast
05.	Residual Balancing
06.	Green House Gas (GHG)
07.	ANNOUNCEMENTS

Incentive's Introduction



Capacity, Constraint Management (CCM)

The maximum release of capacity (above our obligations) and minimise the costs of constraints against a set financial cost target



Demand Forecasting D-1

Forecasts for the day ahead demand at D-1. Fixed target of 8.35mcm + storage adjuster due to level of injection capability seen during the year.



Residual Balancing

To balance supply and demand on the gas day to ensure the NTS remains within safe operating limits. We minimise the impact our trading has on the market when we do take and to balance the network.



Green House Gas Emissions

We are incentivised to minimise the amount of GHG that enters the atmosphere and consider the environmental impact of our compressor operations when venting



Maintenance

We are incentivised to minimise the changes to maintenance planning and deliver benchmark performance for summer maintenance outage days, including Valve Operations (VO). Period 1st Apr – 31st Oct



Capacity Constraint Management

Purpose

To incentivise the maximum release of capacity (above our obligations) and minimise the costs of constraints against a set financial cost target.



Customer Value

Release of capacity up to and above our obligations and minimising the costs of constraints against a set financial cost target

Structure

Value = +£5.2m to -£5.2m 14% scaling for revenues from Non-Obligated capacity Sharing Factor = 39% NG, 61% customers Target = £8.5m

Q1 Performance and Developments



No commercial action taken during the quarter, Operational strategies and Customer liaison used effectively to manage any potential constraint risk.



Significantly reduced release at Bacton Exit IP in comparison to same period last year due to ongoing planned summer maintenance



Non-obligated capacity revenue significantly lower as compared to same period last year.

Maintenance

Purpose

We are incentivised to minimise the use of 'maintenance days' and making changes to the maintenance plan

Structure

Changes – target 7.25%
of the total maintenance plan
days in the year.
Use of Days – (VO) – target
11 days +Use of Days – (ex
VO) – target align 75% of
customer impacting
Value = +£0.5m to -£1.5m

Customer Value

Additional revenue opportunity due to maintenance alignment of planned outage

Q1 Performance and Developments



The Summer 24 maintenance outage plan included 260 days of customer impacting work, (6% increase from same period last year) of which 250 days are aligned. For the use of days non-VOs, we are still forecasting 228 days, of which all 218 are aligned works.



Approximately 36% of aligned summer maintenance completed in 1st quarter, with 1 change to the plan initiated by NGT, same time last year was 0 change to plan.

Demand Forecasting

Purpose

Deliver accurate 13:00 day ahead demand forecast.



Customer Value

To make forecasts for the day ahead demand (D-1) to enable informed commercial decisions

Structure

Target: 8.35 mcm/d (+1mcm DFSA) Value = +£1.5m / -£1.5m

Q1 Performance and Developments



Average daily error 6.9mcm



DFSA = 0.0419mcm as 7/8 sites have met the requirement, reduced from same time last year.



Underlying demand levels for Q1 24/25 are lower this year (161mcm/d) compared to the same period last year (202mcm/d) mainly due to the reduced EU exports.



Wind variability still affecting forecast.

Residual Balancing

Purpose

Balancing supply and demand on the gas day to ensure the NTS remains within safe operating limits.



Customer Value

Enabling efficient use of network with minimum impact on the market and publishing hourly trade/LP swing data

Structure

Price Performance Measure (PPM)
target: 1.5%
Linepack Performance Measure
(LPM) target: 2.8mcm
Value = +£1.6m to -£2.8m

Q1 Performance and Developments



Average PPM – 0.5% of SAP compared to 1.5% target

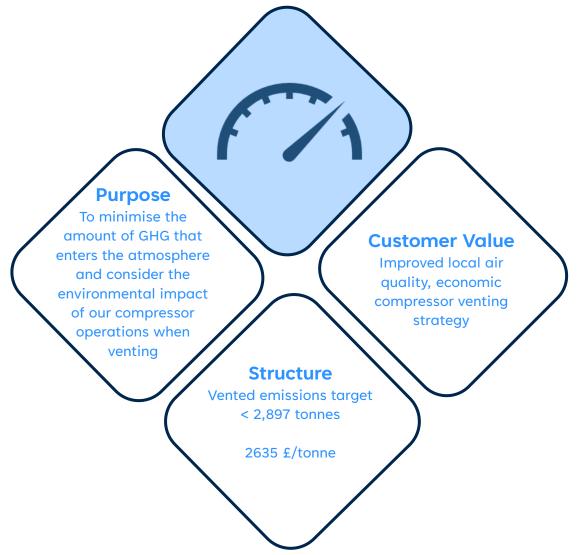


Average LPM – 1.6mcm compared to 2.8mcm target



Traded 51 out of 91 days on OCM on 56% of days (73% same period last year)

Greenhouse Gas Emissions



Q1 Performance and Developments



Total vented emissions – 403 tonnes



14% of emissions annual target used



7 units inhibited from April till end of October. Available units are reduced which reduces emissions

Timelines and more information



Our quarterly incentive report can be found on our website: Q1_24_25_External Report v1.pdf (nationalgas.com)



T3 consultation document can be found on our website:

Preparing our RIIO-GT3 business plan (2026-2031) | National Gas



Q2 incentives performance will be summarised at the November Gas Ops Forum. More information: Gas Operator Incentives.



Ebikedou Cliff-Ekubo, Commercial Incentives Analyst ebikedou.cliff-ekubo@nationalgas.com

Darren Lond, Incentives Performance and Development Manager darren.lond@nationalgas.com

The System Operator Interactive session

Rachel Hinsley

Operational Liaison and Business Delivery Manager





System Operator



Responsible for keeping the National Transmission System (NTS) operating safely, reliably and efficiently. That means balancing supply and demand on the network and ensuring safe operating pressures are maintained within the pipes.

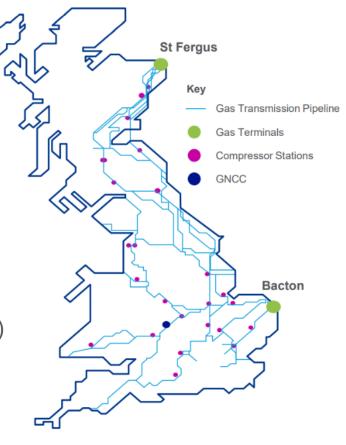
Our National Control Centre uses a range of tools and strategies to operate the NTS safely, reliably and efficiently every day.

Customer



Assets

23 compressor stations 530 above-ground installations (AGI) 8 x Gas Distribution Networks 7,660 km network length National Control Centre



~ 290 shippers

3 x Interconnectors

15 x Industrial Customers

30 GW of power generation



Ian Radley

Director System
Operations

Craig James	Gareth Hocking	Steve Fisher	Paul Sullivan	Glenn Bryn-Jacobsen	Liz Ferry	Jake Tudge	Jon Dutton
National Control	Operational Delivery	Commercial & Incentives	System Capability & Risk	Energy Resilience	Markets	Corporate Affairs	RIIO-3
Accountabilities:	Accountabilities:	Accountabilities:	Accountabilities:	Accountabilities:	Accountabilities:	Accountabilities:	Accountabilities:
 National Control SCADA & Simulation Operational Continuity, including Cyber IT System Delivery & Change 	 Network Access Network Control Operational Strategy Operational Risk (Short Term) Operational Liaison Safety & Compliance (1st line) 	 Operational Contracts Energy Forecasting Energy Balancing Capacity & Access Development Shrinkage Emissions 	 Network Capability Network Modelling Network Design Operational Risk (Long Term) Economic Modelling 	 Informing Government Energy Policy Delivery against GB Energy Security Strategy External Publications Incident & Emergency Management 	 Market Development Market Change Charging & Revenue Collection EU Relations 	 External Affairs Political Affairs Media & Digital Crisis Communications 	SO RIIO3 OpEx, CapEx & Incentive submissions
		 Incentive Performance Incentive Development 		Business Continuity Office of the Network Emergency Coordinator			

Interactive Questions

Join the session at menti.com | 4692 2072



Rules of engagement

- All comments will remain anonymous. If you would like to be identified from your comment,
 please provide your name and organisation and we will get in touch following the Ops Forum.
- Please give as much information as possible. For us to make any changes to how we work with you we need to fully understand your point of view.
- This is not the place to challenge individuals. This event is to discuss areas of improvement not individuals
- This is focused on the System Operator. We may not be able to immediately respond to other areas of National Gas, but we will take it away.
- All input will be assessed and fed back in October. We value your input and will look to act upon feedback provided.

General Updates

Rachel Hinsley

Operational Liaison and Business Delivery Manager





Transparency on non-Standard Gas Quality at New connections

- We are seeing more requests for **Biomethane connections** to the NTS requesting higher **Oxygen limits**.
- <u>UNC Mod 0882s</u> has been raised by National Gas to increase the **transparency of new connection** applications which include a request for a gas quality parameter outside of the published NTS Specification.
- We are agreeing, through the workgroups, on the information national gas will provide to industry in future.
- We are conscious that existing connections may be sensitive to Oxygen and/or Carbon Dioxide and may be interested in this modification.
- At the last workgroup draft templates were shared. If you are interested, please find details here: Workgroup 0882S 10 September 2024 | Gas Gov 2023 (gasgovernance.co.uk)
- The next workgroup is on 3rd October at 10am should you wish to join. <u>Transmission Workgroup Meeting 03 October 2024 | Gas Gov 2023 (gasgovernance.co.uk)</u>

For further information please contact Nicola Lond in the Market Change team at nicola.j.lond@nationalgas.com

National Gas App New Release

We're thrilled to announce new enhancements to the National Gas app, providing deeper insights into Britain's gas network.

New features include:

- View historical gas supply and demand data trends over a 12-month period.
- Access supply/demand charts in landscape mode.
- Display data values in different formats (Mcm/GWh).
- Enjoy music or podcasts while using the app.

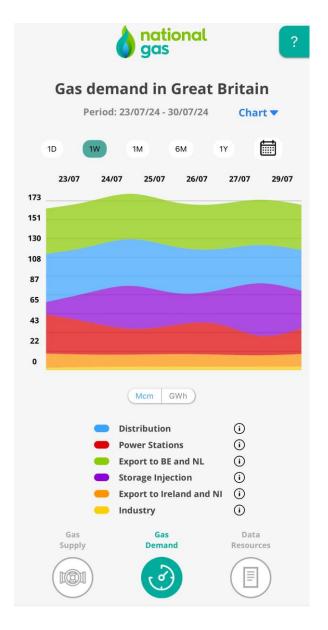
Our app continues to deliver real-time insights through interactive charts and maps, crucial for understanding the gas system as we transition to a cleaner energy future.

Download the updated National Gas app now on iOS and Android:

App store: https://lnkd.in/d9J4xVPf

Google Play: https://lnkd.in/dP-kd2b2

Watch out for our next release which will be iPad/Tablet compatible!



Gas Data Portal What have we been working on?

1 Modern Application Programming Interfaces (API) Release

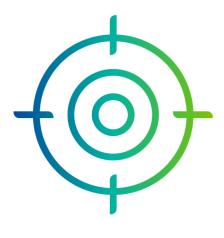
- We will soon be launching our new REST APIs to our Gas Data Portal User Community in a soft launch, where we capture initial feedback ahead of a full launch.
- The new APIs are more efficient, easier to use and comply with industry data standards.
- Our existing SOAP APIs will still be available for the foreseeable future and will run parallel for an extended transition period.

Gas Data Portal Enhancements

- We have just completed our Discovery Phase where we have identified and scoped out key features to enhance the Gas Data Portal.
- Features will include Search Everywhere, Chat Bot and User Customisation.
- Further communications will be sent out once work has started on each of these features.

Daily Storage and LNG Operator Information Report

- In August, we moved the Daily Storage and LNG Operator Information Report into the Gas Data Portal as part of our enhancement project.
- All new data will be available in the Gas Data Portal. For historic data please refer to the existing spreadsheet.
- The Data Items are also available in Find Gas Data and via our API.



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.





Feedback

Please scan the QR Code below to let us know how you found the event today.



Please note; this survey is an ongoing pilot that National Gas are conducting to determine the best method of collating feedback from our customers and stakeholders. This feedback will not contribute to our CSAT score but will be reviewed and actioned internally.

Any data collected will not be used outside of the pilot trial except for qualitative feedback which may be shared internally for actioning purposes.





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	х	Online Only	Clermont & Online	х	x	Online only	Clermont & Online	Online only	х
Future Focus		Maintena nce Focus			Winter Review/ Summer outlook				Winter Focus		
V	V	V		V	V			V			

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

In-person: https://ngt.ticketbud.com/gas-operational-forum-october-in-person-

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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: <u>Gas Transmission | National Gas</u>

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				



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



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