



Gas Operational Forum

16th May 2024

Will start at 10:02am



Introduction & Agenda

Rachel Hinsley

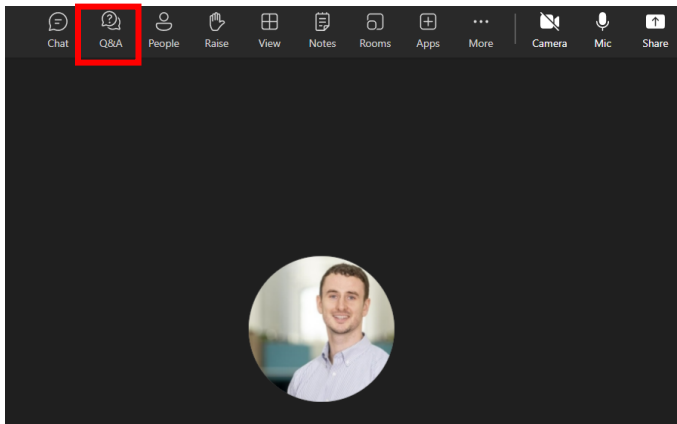
Operational Liaison & Business Delivery Manager

Housekeeping for Forum

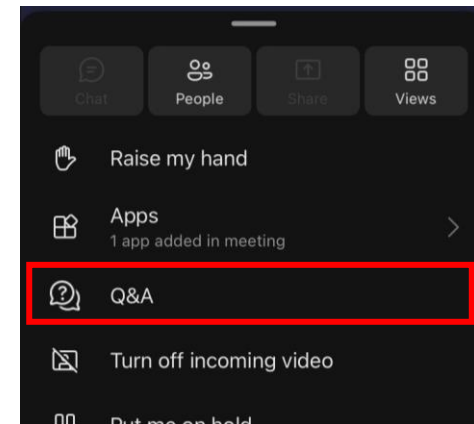
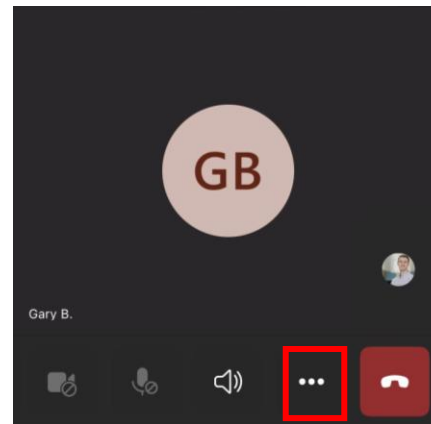
- For Microsoft Teams participants;
- Attendees will be automatically muted on dial-in and cameras will be unavailable.
- We have included some time to answer questions following the presentations.
- You can ask questions **via Teams – Q&A**



Laptop



Mobile



Agenda

Welcome and Introduction	Rachel Hinsley – Operational Liaison & Business Delivery Manager	10:02
Operational Updates	Gareth Hocking - Head of Operational Delivery	10:05
Emergency Exercise	Alex Potter – Lead NEC Specialist	10:15
Enabling Biomethane Connections	Kirsty Appleby – Code Change Lead	10:30
Quarterly Incentive Update	Anna Stankiewicz – Incentive Analyst Ebikedou Cliff-Ekubo – Senior Incentive Analyst	10:45
Xoserve Systems Update	Guest Speaker: Simon Harris – Service Manager	11:05
General Updates	Rachel Hinsley – Operational Liaison & Business Delivery Manager	11:25
Close	Rachel Hinsley – Operational Liaison & Business Delivery Manager	11:40

Please ask any questions using **Teams**

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

Operational Updates

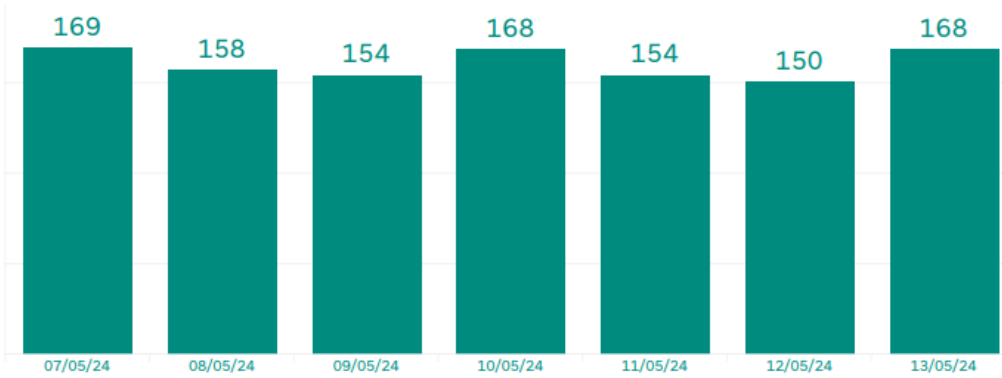
Gareth Hocking
Head of Operational Delivery

NTS Supply



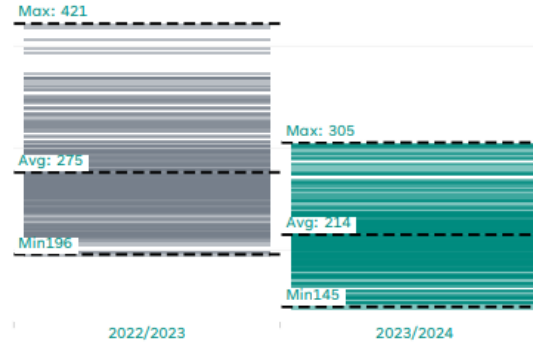
Trends - NTS Supply

NTS Supply



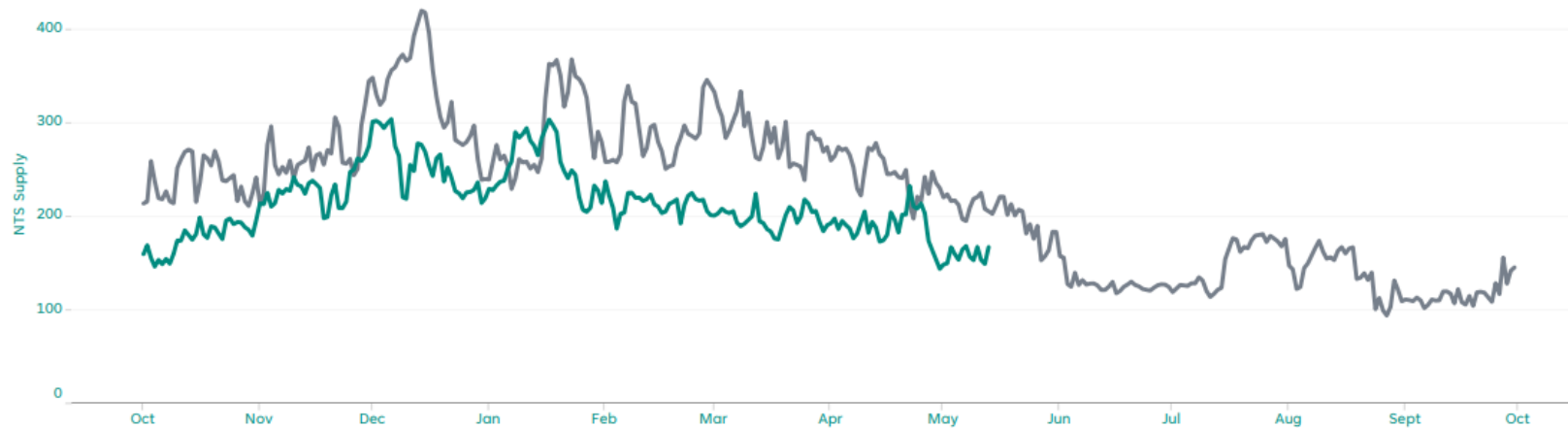
NTS Supply Gas year to date

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



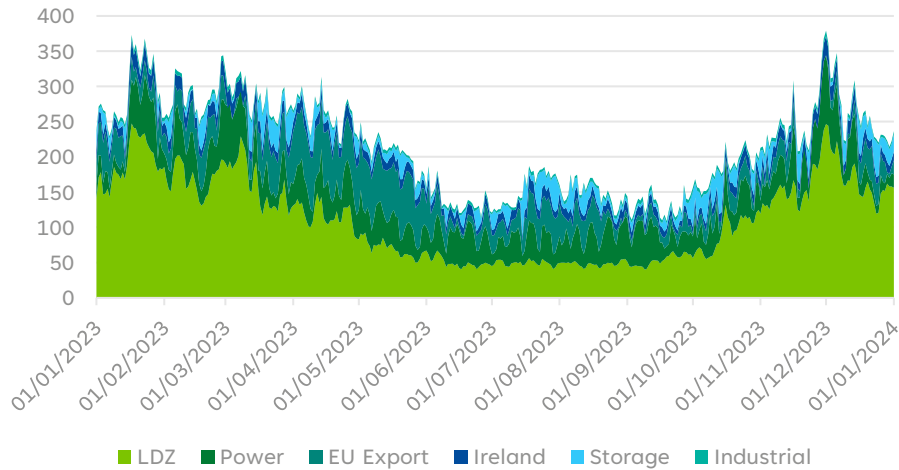
NTS Supply vs previous year

End of day values (mcm)

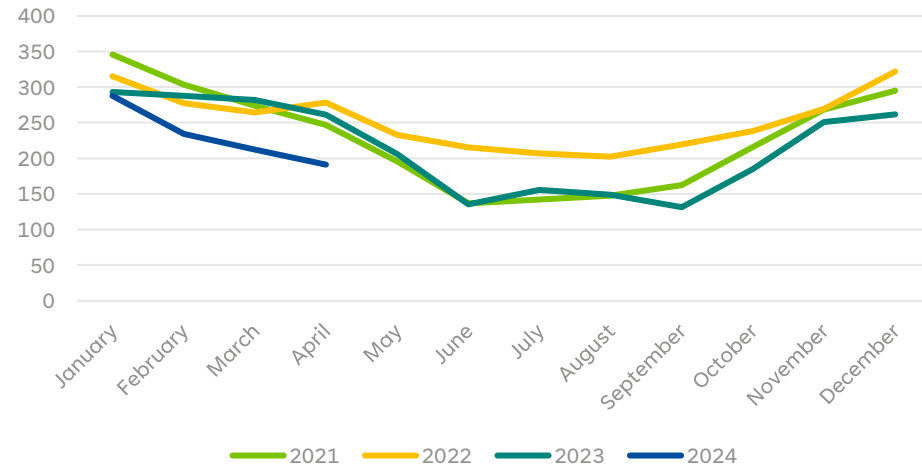


NTS Demands

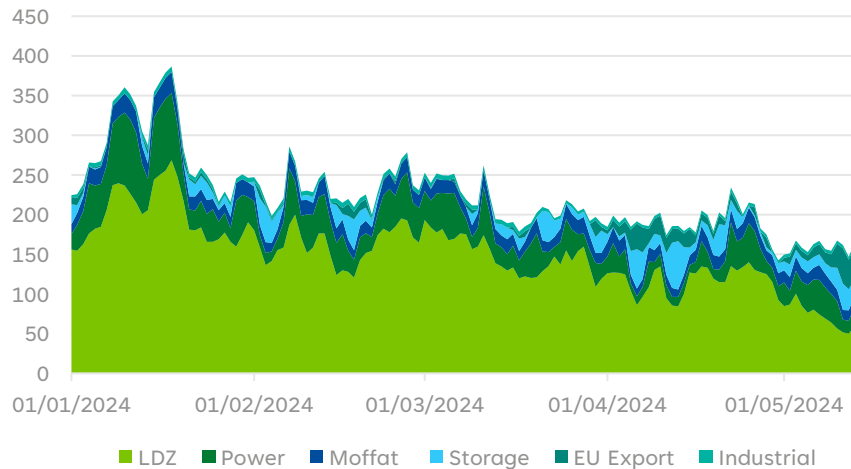
UK Gas Demand 2023 (mcm/d)



UK Total Demand Comparison (mcm/d)



UK Gas Demand 2024 (mcm/d)



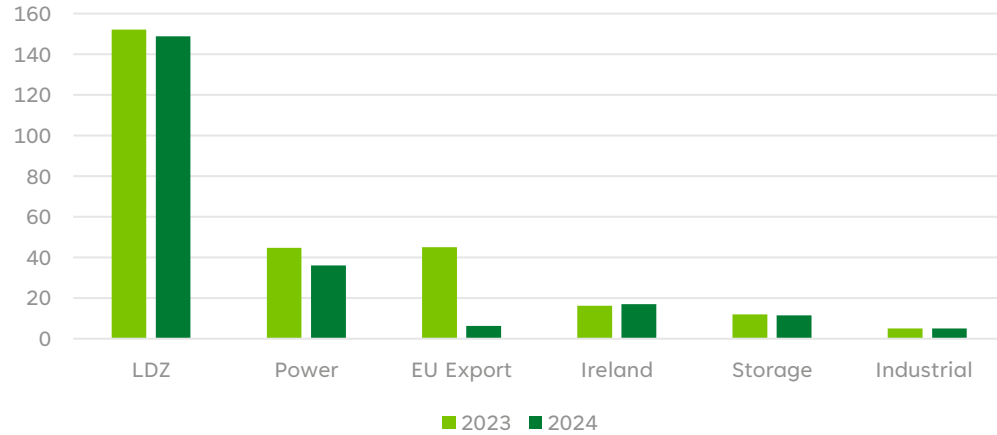
Continued downtrend in gas demand as we head into the Summer

Total NTS Demand – January to May

- 2021 – 284.11 mcm/d
- 2022 – 279.23 mcm/d
- 2023 – 274.48 mcm/d
- 2024 – 224.90 mcm/d

Demand Comparison

NTS Exit Point Comparison
January - May

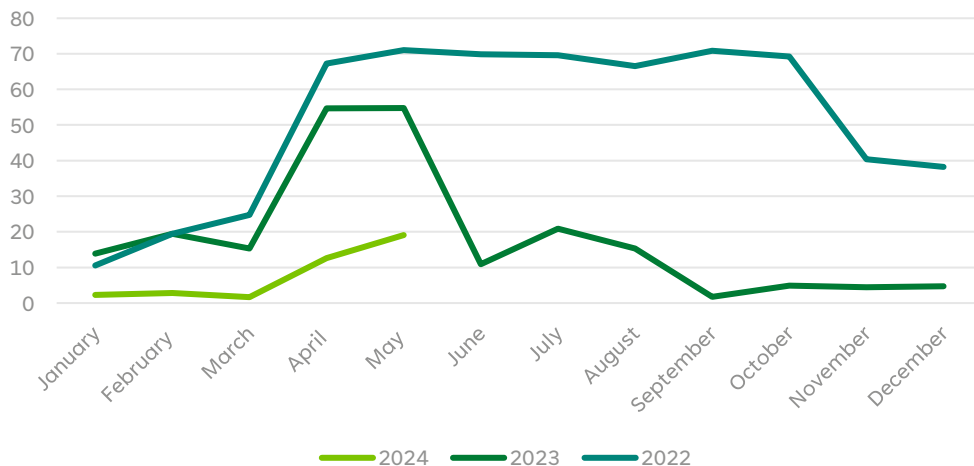


EU Export remains much lower than previous years ~ 39 mcm/d

A combination of factors has increased resilience in Europe

- Improved storage capacity
- Increase in Europe's Floating Storage Regasification Unit (FSRU)
- Mild European Winter – 9% higher than the ten-year average allowing storage to fill. (*Maxar*)

European Export Comparison (mcm/d)



GB & European Storage



Storage & LNG

Total LNG Stock and Percent Full
Snapshot as of: 13 May 2024

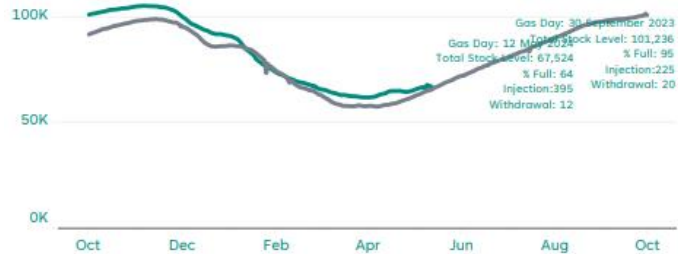
972 mcm
75% full

Total GB Storage Stock and Percent Full
Snapshot as of: 13 May 2024

1,322 mcm
40% full

(LRS 43%) (MRS 36%)

EU storage stock (mcm)



Data as of beginning of gas day 13/05/24

All values shown are volume in millions of cubic metres (mcm)

Previous year data is shown for the equivalent time period from the start of the gas year (01 Oct) to latest data

LNG & Storage stock (mcm)



LNG Arrivals

number of boats

SouthHookTer



21/05/2024 #1

2023/2024

2022/2023

Emergency Exercise

Alex Potter
Lead NEC Specialist



NEC Industry Exercise 2024

Exercise FAHRENHEIT

Network
Emergency
Co-ordinator



Exercise EVEREST 2023

- 15 Learning points from Ex EVEREST
- Working with affected parties to resolve and include in Ex FAHRENHEIT
- Data relating to Priority Customers
- Minimise Flows
- Modernisation of forms
- Sufficient time spent on Stage 3 – Isolation
- Embedding the modernised Public Appeal process



Summary of Learning Points & Progress
Since Exercise DEGREE (2022) are available
in the [Ex EVEREST PXR](#)

Exercise FAHRENHEIT

Exercise FAHRENHEIT 2024 NEC Assurance Exercise Industry Briefing

Network
Emergency
Co-ordinator



Next
Page

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)

Enabling Biomethane Connections

Kirsty Appleby
Code Change Lead

Overview

- Biomethane is a fuel which can improve the sustainability of the natural gas network and reduce GB's dependency on natural gas imports
- At present, the maximum level of oxygen content that such sites may deliver into the NTS is limited by GS(M)R to 0.2mol%. The oxygen limits for most NTS entry points are more stringent, at 0.001mol% (or 10ppm)
- We have several biomethane connection applications and have received requests for a higher oxygen limit of 1.0mol%
 - The process to ensure biomethane is acceptable on to the NTS includes the additional of oxygen in order for chemical reactions to take place
 - Removal of oxygen is costly; can become a deciding factor in project viability
- As GB Transmission System Operator, we want to support and enable the transition to Net Zero

Current Situation

- The GS(M)R review formalised the Gas Distribution Networks' 'class exemption' granted by the HSE which allows for projects to connect with an oxygen limit of up to 1 mol% on networks where the pressure is up to 38 barg
- We are in the initial stages of preparing an evidence case to submit to HSE to permit us to offer up to 1 mol% oxygen limit on the NTS and on any DN network above 38 barg
- This will be a two phased approach;
 - A site-specific GS(M)R exemption
 - Network wide GS(M)R exemption
 - This will be requested as a class exemption
 - An NIA funded study addressing the impacts of an elevated level of oxygen will be undertaken

Applying the Exemptions

- **If these exemptions are granted, we envisage that the 1 mol% oxygen limit would be applied on a case-by-case basis**
 - Given the relatively low expected volumes delivered by biomethane sites, it is expected that the elevated oxygen content would readily blend away
 - However, we intend to undertake a risk assessment and network analysis, which will include determining whether elevated oxygen content could reach an offtake that is sensitive to oxygen
 - Our current understanding is that this includes storage sites and potentially offtakes that use gas as a chemical feedstock
 - We are currently working on the detail regarding our internal processes and planning industry consultation

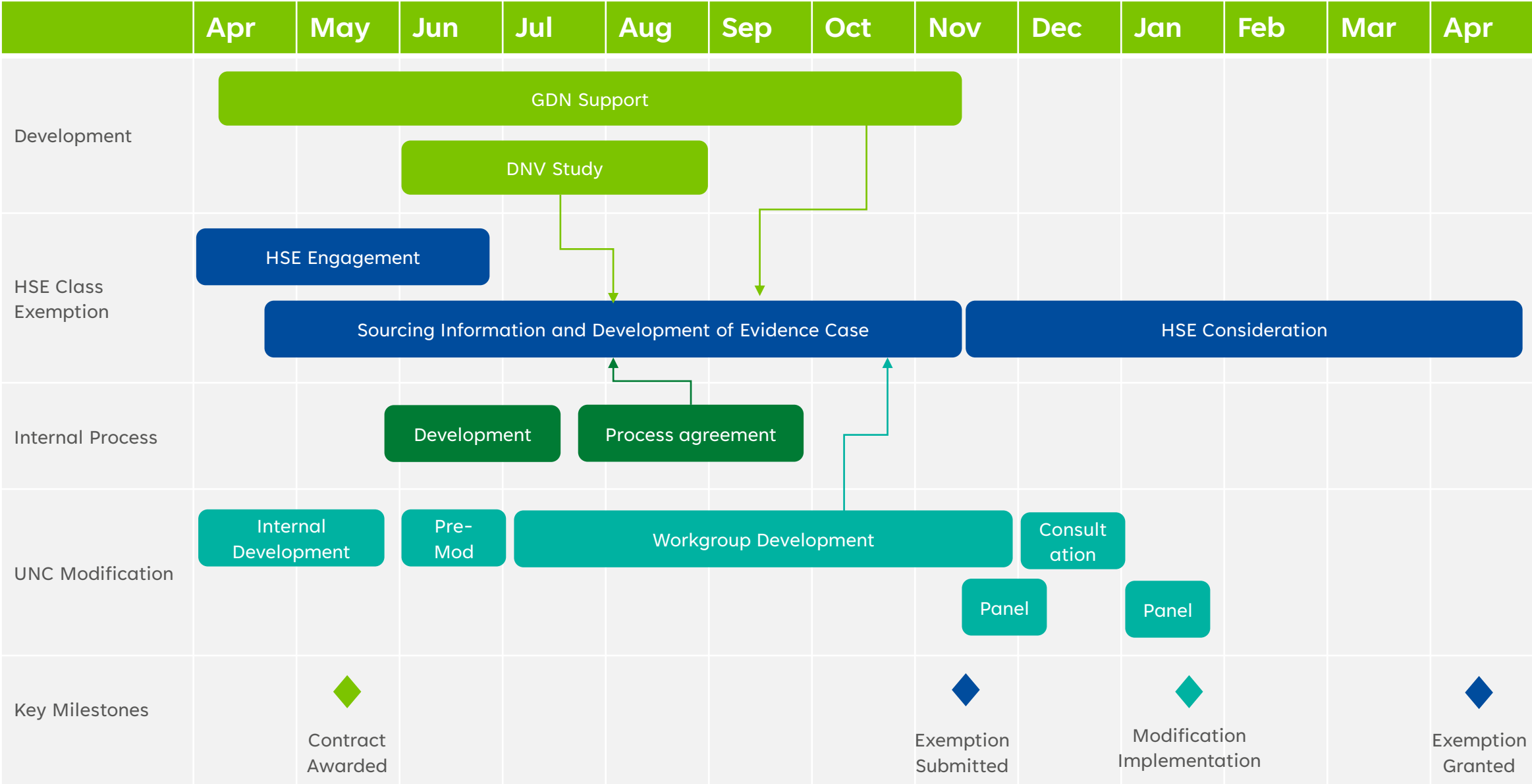
Improving Transparency

- Under UNC, TPD, Section I, there is a requirement for NGT to consult with industry if operators wish to make a change to Network Entry Provisions (which contain the gas quality limits)
- No such transparency exists if NGT wishes to agree ‘non-standard’ gas quality limits with new entry connections
- This was recognised as a ‘gap’ in the GMaP¹ project that reviewed the UNC change processes in relation to gas quality
- We believe that our planned approach to the oxygen limit creates a greater need to address this and therefore propose to progress a UNC Modification in parallel:
 - NGT obliged to conduct industry engagement where a new NTS entry point wishes to connect with parameters outside of the Gas Ten Year Statement limits
 - Pre-Modification discussion planned for June’s Transmission Workgroup

1. <https://www.nationalgas.com/future-of-gas/gas-quality>

Contacts: Kirsty.Appleby@nationalgas.com (for exemption queries) Nicola.j.Lond@nationalgas.com (Transparency)

High Level Timescales (Indicative only)



Quarterly Incentive Update

Ebike Cliff-Ekubo
Senior Incentive Analyst

Anna Stankiewicz
Incentives Analyst



GSO Incentives - Introduction

Our focus today

Q4 Performance against set targets

EOY Performance against targets

EOY Financial Performance

Contents

- 01** Greenhouse Gas Emissions
- 02** Demand forecasting
- 03** Residual balancing
- 04** Constraint Management
- 05** Maintenance

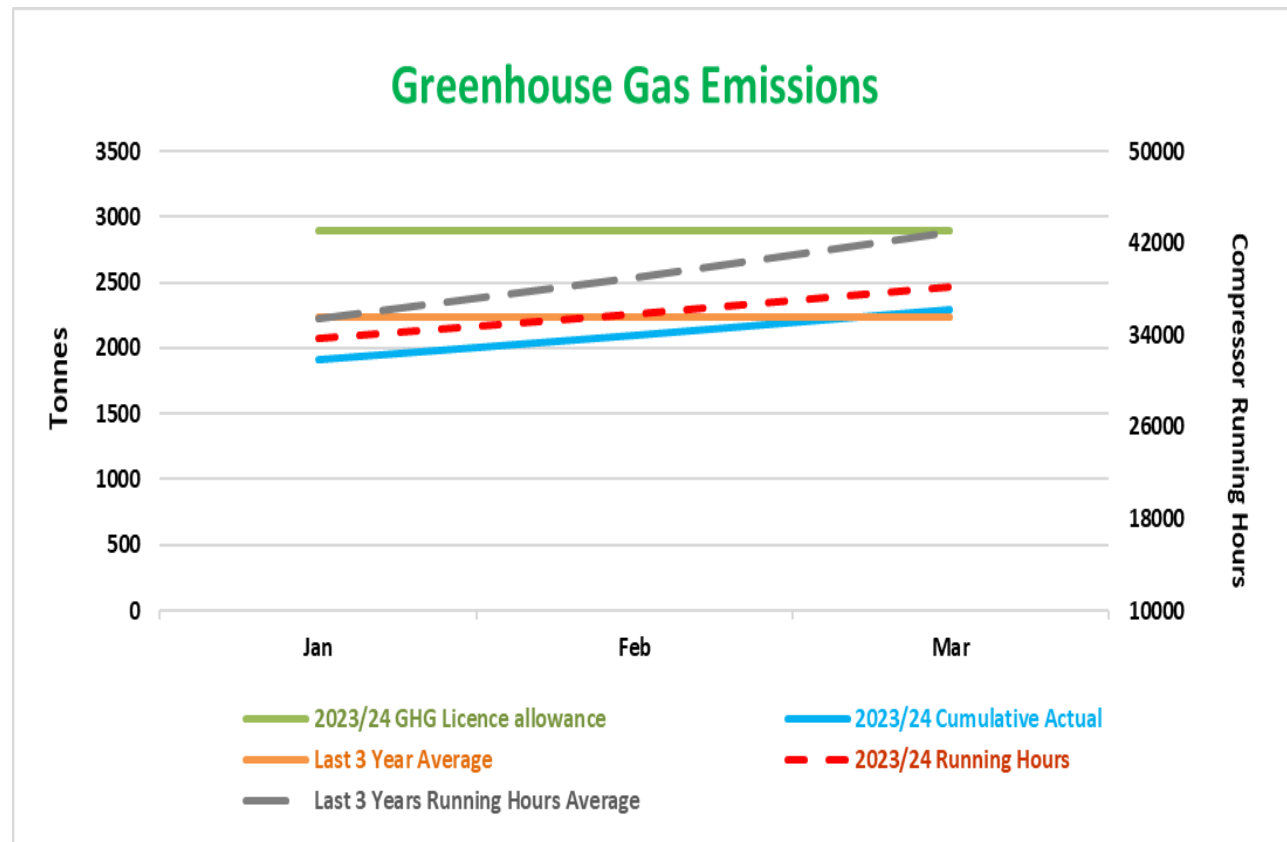
Greenhouse Gas Emissions

- 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.

Q4 Performance

- Vented Emissions to date: 2325 tonnes, (655 during Q4)
- Used 80% of allowance, the same as up to this point last year.
- Compressor running hours – 38198, 30% decrease year compared to previous year.

Q4 Emissions / Compressor hours



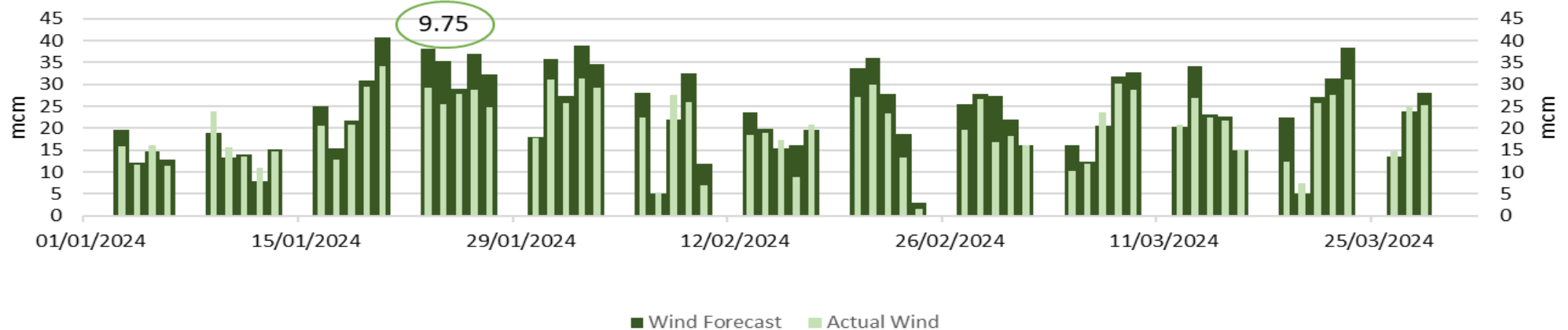
Demand Forecasting

- 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

End of Year Performance

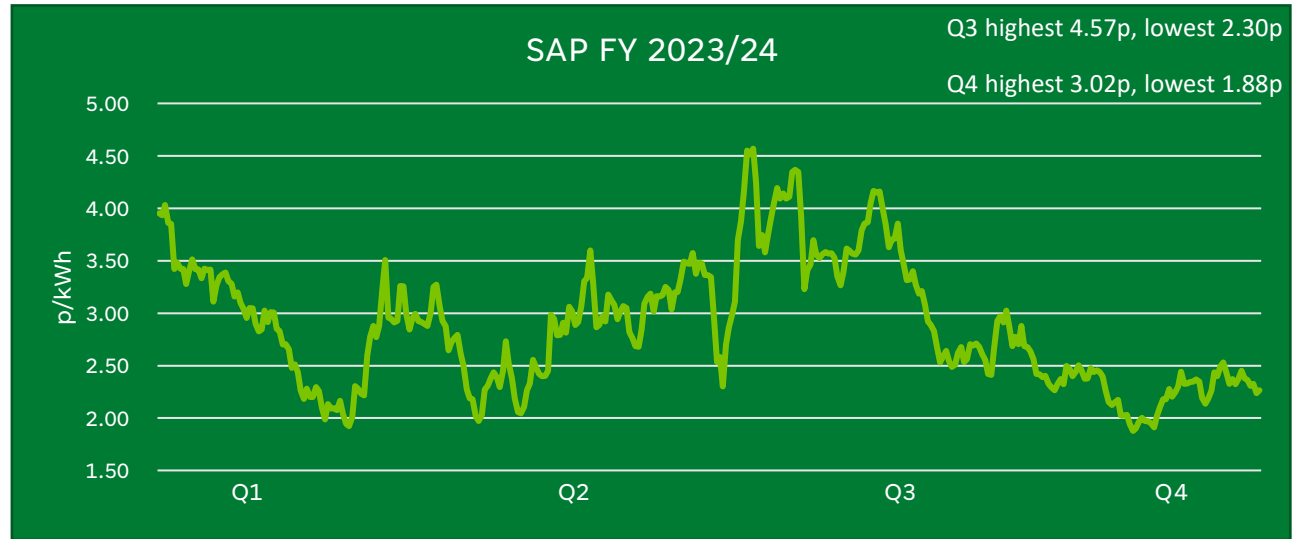
- Average daily error of 7.87mcm/d 23/24 v 8.97mcm/d last year.
- DFSA 0.167mcm
- Higher volatility at 13.02mcm/d in 23/24 (last year 12.68mcm/d).
- Wind forecast is still volatile up to 10mcm error on a day.

Wind Forecast / Actual



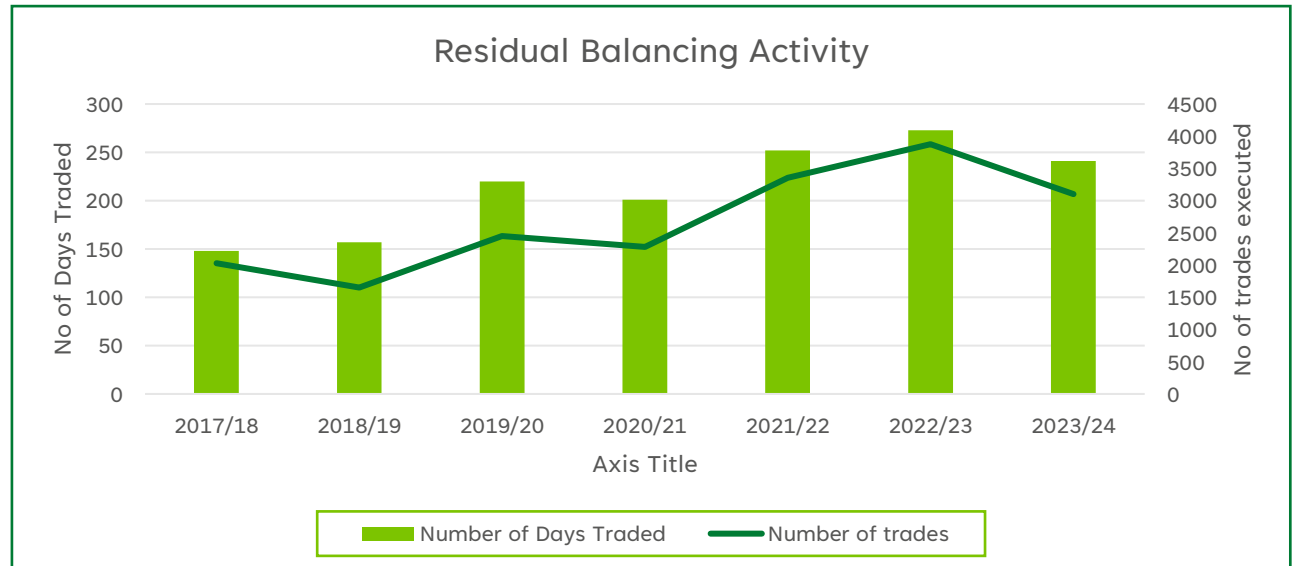
Residual Balancing

- 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
- Customer value: enabling efficient use of network with minimum impact on the market and publishing hourly trade/linepack swing data



Q4 Performance

- Average Linepack Performance Measure (LPM): 1.7mcm
- Average Price Performance Measure (PPM): 1%.
- Traded on 57 out of 91 days or 63% of days. Last year's equivalent period was 71 days (78% of the time).

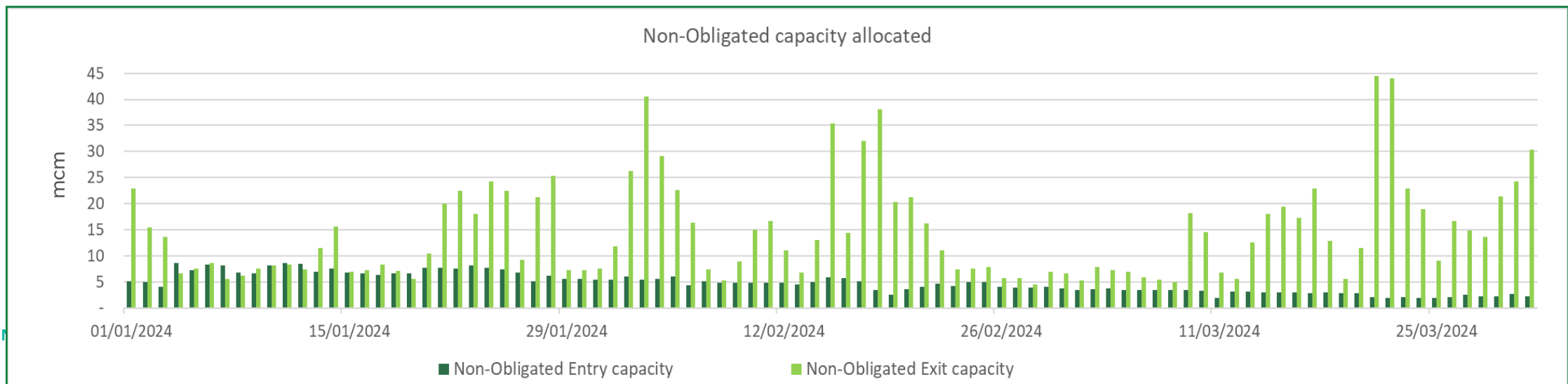


Capacity Constraint Management

- 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

Q4 Performance

- Non-Obligated Capacity released at 3 supply and 23 demand points (circa £1.5m Entry and £0.9m on Exit, £120K feeds into the incentive after scaling/Sharing Factor)
- No commercial tools used – relatively mild winter and strategies were put in place to ensure assets are available to support resilience through comprehensive winter preparedness work.

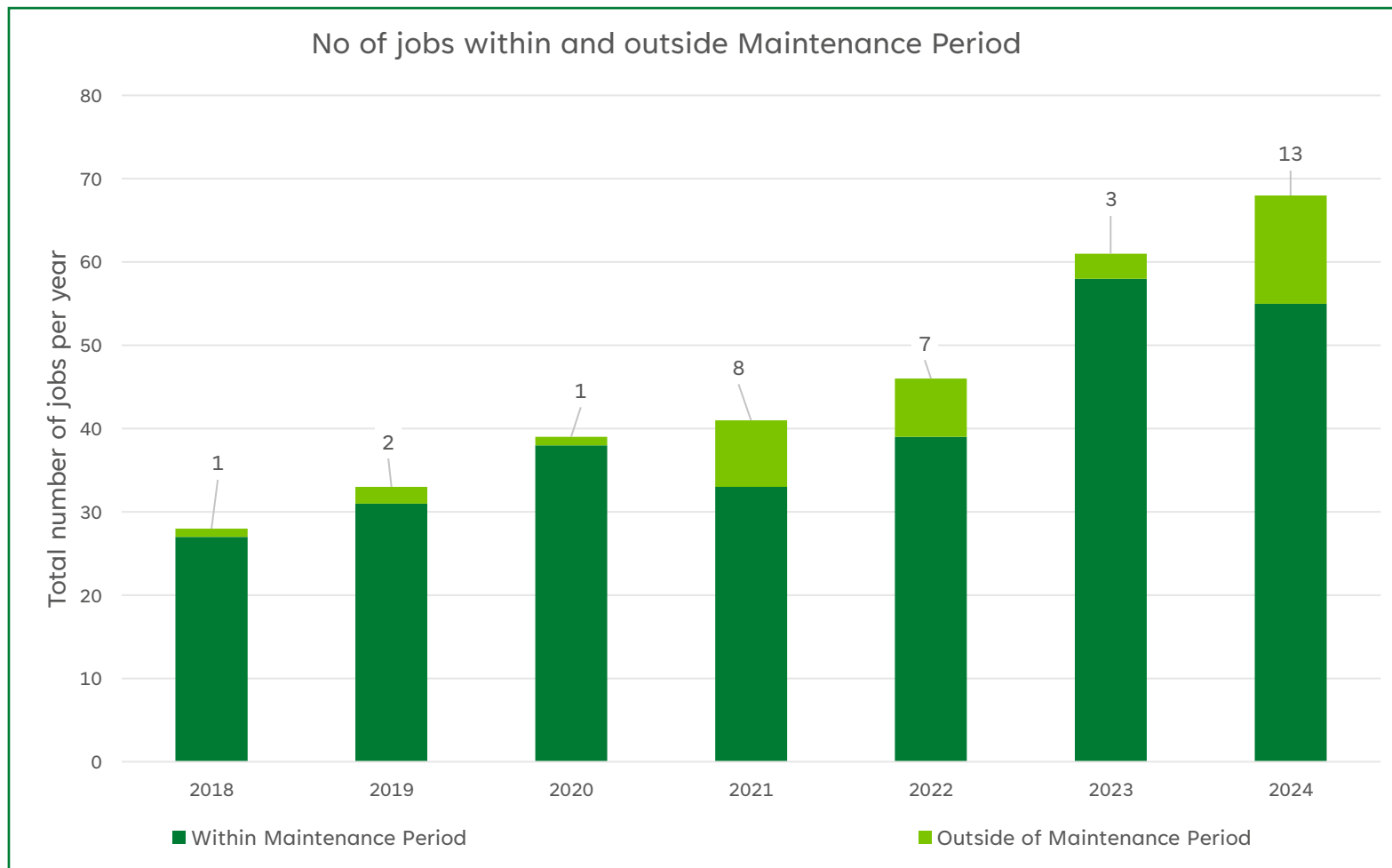


Maintenance

- 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
- Customer value: additional revenue opportunity due to maintenance alignment of planned outages

Q4 Performance (no change)

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



Summary of performance

Incentive	Target	EOY Target Performance	EOY Financial Performance
Residual Balancing	PPM: 1.5% LPM: 2.8mcm	PPM: 0.9% LPM: 1.8mcm	£0.83m
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% alignment	£0.5m
Greenhouse Gas	2,897 tonnes	2,293 tonnes	£1.46m
Demand Forecasting	8.35mcm + up to 1mcm DFSA	7.9mcm + 0.167mcm	£0.25m
Capacity Constraint Management	£8.5m	No costs incurred under the incentive structure	£3.8m

Total £6.84m (cap £10.3m)

Timelines and more information

- Our quarterly incentive report will be published on our website by the end of May: <https://www.nationalgas.com/about-us/system-operator-incentives>
- We will be publishing information on our T3 incentive proposals in the summer and will be keen to hear your feedback. Please contact us if you would like to discuss the details.
- More information: [Gas Operator Incentives](#).

Contact:

- Anna Stankiewicz, Incentives Analyst (anna.stankiewicz@nationalgas.com)
- Ebike Cliff-Ekubo, Senior Incentive Analyst (ebikedou.cliff-ekubo@nationalgas.com)
- Darren Lond, Incentives Performance and Development Manager (darren.lond@nationalgas.com)

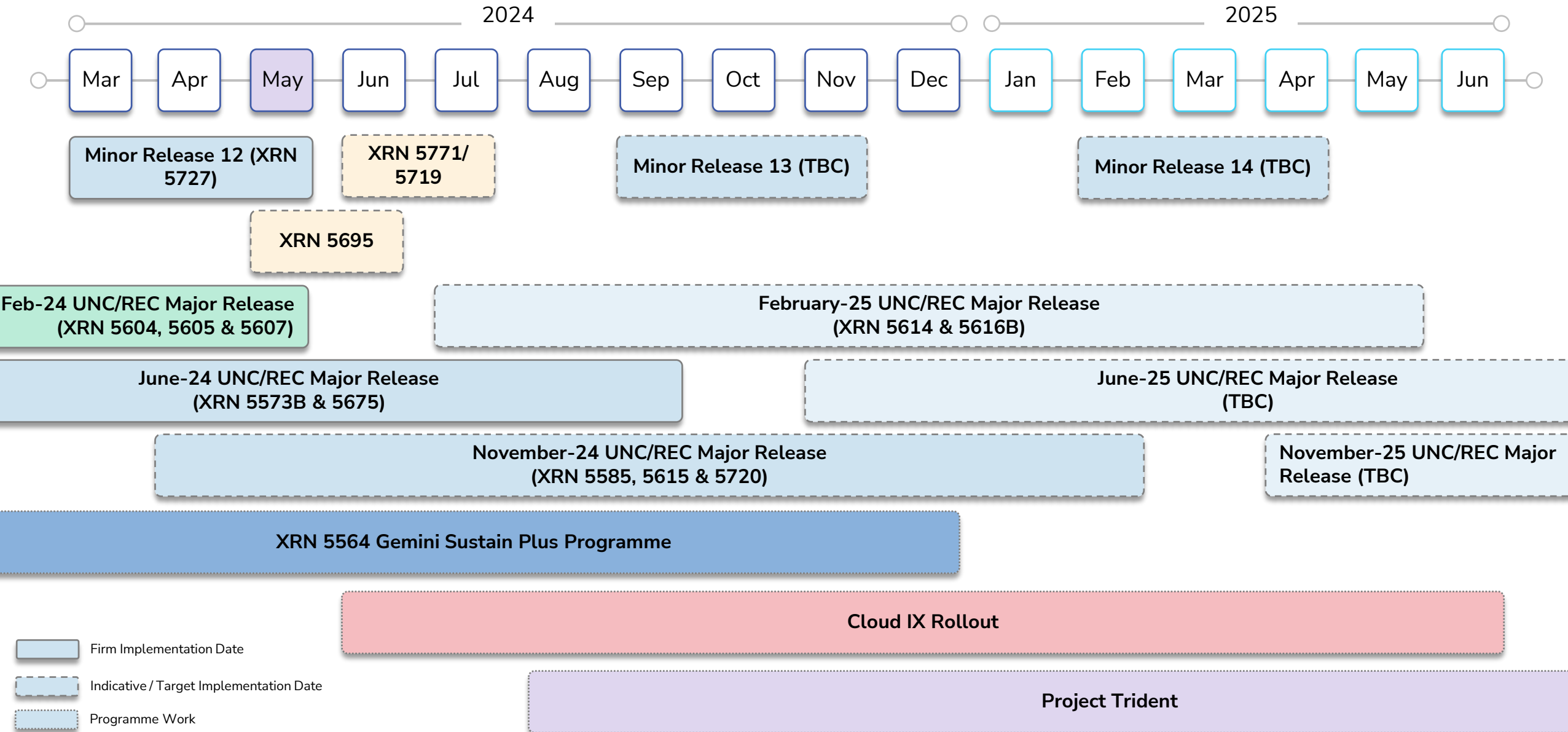
Xoserve Update

Simon Harris
Service Manager - Xoserve

Xoserve Overview

- [Xoserve](#) is the Central Data Services Provider (CDSPP) for Britain's Gas Market
- Provide and maintain key centralised services to ensure the industry operates smoothly, effectively and efficiently, in accordance with the Uniform Network Code (UNC).
 - UK Link Technology Estate (comprises of multiple systems, components and functions, key areas are...)
 - UK Link (Supply Point Administration, Transportation Invoicing)
 - Gemini (Entry, Energy Balancing, Invoicing and Exit)
 - Information Exchange (IX)
 - Contact Management Services (CMS)
 - Gas Enquiry Service (GES)

CDSP Customer Change Delivery Plan



Industry Change Development

- Under the **Data Services Contract** (DSC) the Change Management Committee ([ChMC](#)) are responsible for championing and progressing changes to DSC Services provided by Xoserve
- A sub-group of ChMC called **Delivery Sub-Group** (DSG) is hosted by Xoserve monthly for impacted/ interested parties to join and discuss/scope DSC changes and feed recommendations to ChMC
- Please contact uklink@xoserve.com if you wish to get involved in future DSG sessions (next one 20 May)

DSC Change Proposals in progress

APPENDIX

Changes in Delivery

XRN	Change Title	Proposer	Benefit / Impact	Target Implementation Date	Release Type	Firm / Indicative
<u>5604</u>	Shipper Agreed Read (SAR) exceptions process (Modification 0811S)	SEFE	Shipper	February 24	Major	Delivered
<u>5605</u>	Amendments to the must-read process (IGT159V)	Centrica	Shipper & IGT	February 24	Major	Delivered
<u>5607</u>	Update to the AQ correction processes (Modification 0816S)	EON Next	Shipper, DN & IGT	February 24	Major	Delivered
<u>5727</u>	Minor Release 12 - XRN5582 Energy Invoice Upload from UK Link to Gemini	Xoserve	CDSP	10 th May 24	Minor	Firm
<u>5695</u>	Revision of Virtual Last Resort User and Contingent Procurement of Supplier Demand Event Triggers (Modification 0854)	NGT	NGT & Shipper	10 th May 24 *Subject to Ofgem Decision	Ad-hoc	Indicative
<u>5771</u>	Amendments to Demand Side Response (DSR) Arrangements – Modification 0866)	NGT	All	*20 th June 24 Subject to Panel	Ad-hoc	Indicative
<u>5719</u>	Provision of consolidated Specific Services Invoice and Supporting Information	Xoserve	All DSC Customers	June 2024	Ad-hoc	Indicative
<u>5675</u>	Implementation of 0836S and integration with REC Change R0067 and Modification 0855 - Settlement Adjustments for Supply Meter Points impacted by the Central Switching System P1 Incident (IGT170/171)	SEFE	Shipper	June 24 (28 th)	Major	Firm
<u>5573B</u>	Updates to the Priority Consumer process (as designated by the Secretary of State for Business, Energy, and Industrial Strategy - BEIS)	Xoserve	Shipper, DN & IGT	June 24 (28 th)	Major	Firm
<u>5564</u>	Gemini Sustain Plus Programme	NGT	All	Ongoing	Ad-hoc	Firm
<u>n/a</u>	Cloud IX Rollout	Xoserve	All	Ongoing	n/a	Firm
<u>n/a</u>	Project Trident	Xoserve	All	Ongoing	n/a	Firm

Change Pipeline (In Progress)

XRN	Change Title	Proposer	Benefit / Impact	Latest Update
5615	Establishing/Amending a Gas Vacant Site Process (Modification 0819 – IGT168)	Centrica	Shipper, DN & IGT	Solution Option Change Pack approved @ March ChMC. Scope decision to include in November 2024 Release scope being made in May ChMC.
5720	Gateway delivery for RPC backing data (IGT173)	EON	Shipper & IGT	Awaiting IGT Panel decision on implementation date. Detailed Design being produced to support early (November 2024) Release.
5546	Resolution of Address Interactions between DCC and CDSP	Xoserve	DN, IGT & Shipper	N/A – performing analysis on data extracts provided by DCC. Next steps to be confirmed once analysis is concluded.
5702	Update to assess the replacement of Facsimile as a form of communication – Modification 0864S	NGT	All DSC Customers	Q1 2024 - Continue to support Modification development with a view to establish agreed customer requirements.
5453	GSOS 2, 3 & 13 Payment Automation	SGN	Shipper & DN	Removed from hold – workshops taking place with DNs to scope requirements.
5473	Meter Asset Details Proactive Management Service	CDSP	Shipper	Q1 2024 - Planning Phase - CDSP raised Change Proposal.
5569	Contact Data Provision for IGT Customers	BUUK	IGT	Performing initial ROM assessment of Change Proposal. Initial analysis shared with Proposer wc 22 nd April. Discussions with REC CM also being scheduled to support development of solution.
5585	Flow Weighted Average Calorific Value - Phase 2 Service Improvements	Cadent	DN	Functional Requirements discussed and ratified at FWACV Focus Group. Detailed Design to be progressed in collaboration with DN customers via Focus Group ahead of Change Pack – which is targeted in May 24.
5614	Improving IGT SMP New Connection Process to support accurate and timely Supplier Registrations	BUUK	Shipper & IGT	Detailed Design approved at April ChMC. Scope decision on implementation date to take place in May ChMC.
5616	CSEP Annual Quantity Capacity Management	WWU	DN, IGT & Shipper	Part A – descoped. Part B – Solution Option approved – design to take place, with delivery options and breakdown of costs to be provided to customers.
5732	Inclusion of IGT MPRNs into specified existing DSC Processes	BUUK	IGT & Shipper	Change Proposal accepted into Change Portfolio at March ChMC. Requirements Gathering taking place between March – May with business experts.
5784	Modification 0862 Amendments to the current Unidentified Gas Reconciliation Period	SEFE	Shipper, DN & NGT	New Change Proposal being presented to May ChMC.

Change Pipeline (On Hold)

XRN	Change Title	Proposer	Benefit / Impact	Latest Update
<u>5345</u>	Deferral of creation of Class change reads for DM to NDM and NDM to DM sites at Transfer	CDSP	Xoserve	Withdrawn.
<u>5454</u>	SoLR Reporting Suite	EDF	Shipper	Withdrawn.
<u>5471</u>	DSC Core Customer Access to Data	CDSP	Shipper, DN & IGT	Low Priority - CDSP raised Change Proposal.
<u>5701</u>	Establishing the Independent Shrinkage Charge and the Independent Shrinkage Expert (Modification 0843 / IGT 165)	OVO	Shipper, DN & IGT	Workgroup extension until July-24. Continue to support regulatory development and provide update to June ChMC on status change.

General Updates

Rachel Hinsley

Operational Liaison and Business Delivery Manager

National Gas App

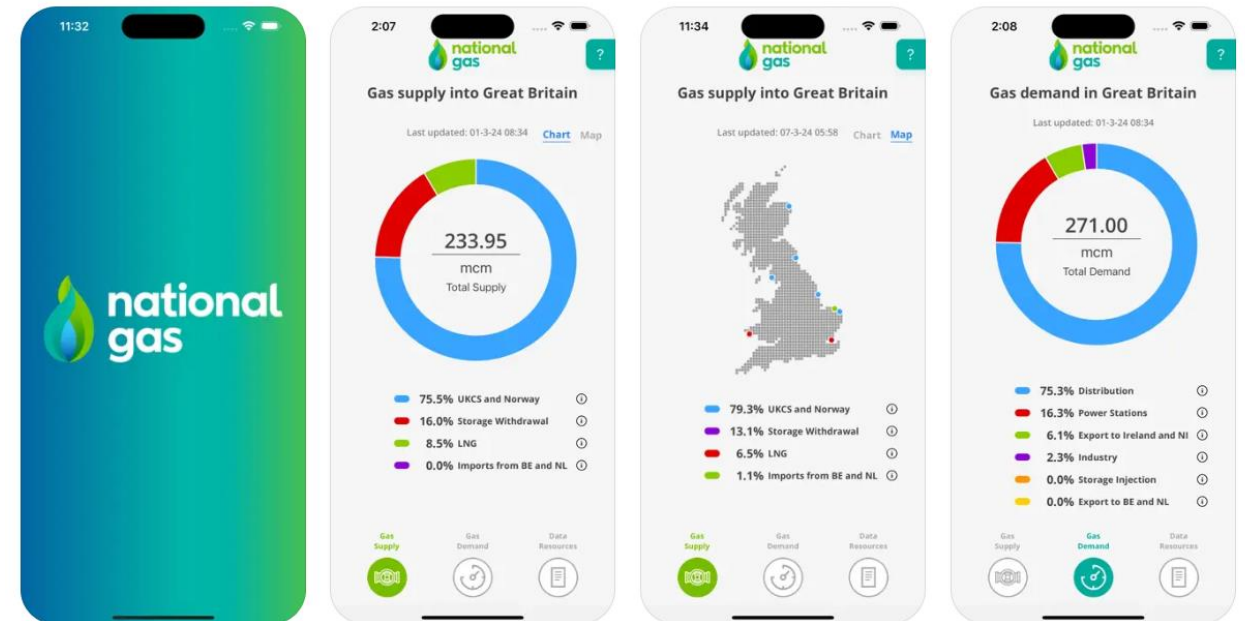
We are pleased to launch our new **National Gas App** that provides users with near real time supply and demand flows in Great Britain throughout the gas day

The National Gas App offers an opportunity to understand the scale and importance of the gas system.

Features include:

- Near real time flow data for Supply and Demand in Great Britain
- % breakdown of flow data in comparison to overall supply/demand
- Ability to drill down to an hourly profile for each category

The National Gas App is available in the App Store and Play Store now!



Gemini Sustain Plus

- The next **Gemini Sustain Plus Focus Group** is scheduled for **Monday 20th May**. There the programme will share the latest updates on progress, information on Market Trials and Connectivity along with hosting a Q&A session.
- All information will be published on the **Sustain Plus website** in due course ([Gemini Sustain Plus \(xoserve.com\)](https://xoserve.com))
- The Gemini Sustain Plus programme are offering the industry the opportunity to take part in **1-2-1 technical surgeries** throughout **April** and **May** (Link below - once session booked on Eventbrite Teams invitation will be circulated)

[Gemini Sustain Plus - Technical Surgeries Tickets, Multiple Dates | Eventbrite](#)



Tuesday, April 2

Gemini Sustain Plus - Technical Surgeries

General Admission - 1 +
Free ⓘ

Gemini Sustain plus is hosting technical surgeries during April to support the gas industry for the connectivity & onboarding phases

Reserve a spot

The image shows a screenshot of an Eventbrite event page. At the top, there is a teal and blue abstract graphic. Below it, the event title "Gemini Sustain Plus - Technical Surgeries" is displayed in bold black text. The date "Tuesday, April 2" is shown in the top left corner. A ticket selection box shows "General Admission" with a quantity of "1" and a plus sign to increase it. Below the box, it says "Free" with an information icon. A small description of the event is provided: "Gemini Sustain plus is hosting technical surgeries during April to support the gas industry for the connectivity & onboarding phases". At the bottom right, there is an orange button that says "Reserve a spot".

Gemini EU Nomination Outage – 20th May

- There is an essential maintenance activity planned to take place in relation to the EU Nomination process in Gemini on 20th May 2024 between 08:00 BST to 10:00 BST. **There will be an interruption to the EU Nomination process during this time.**
- It is requested that shippers not place EU Nominations in Gemini on 20th May 2024 between 08:00 BST till 10:00 BST.
- Shippers can proceed with placing EU Nomination after 10:00 BST
- If you have any problems please contact the Xoserve helpdesk in the first instance. [Raise a new support request - XOSERVE](#)

National Gas Contacts

We have recently migrated the email addresses to our .box accounts.

If you want to see the full list of contacts or want to make a query you can get more information from the Gas Query Directory.

[Transmission operational data | National Gas](#)



Gas query directory

To help you efficiently find the right person to talk to in relation to specific National Transmission System operational gas queries, we have developed the following contact list and directory. We have based it on the most common queries we receive from our customers. Its purpose is to make finding the right subject matter expert within National Gas, quicker and easier than ever before.









Please note that if your query relates to a home or domestic gas connection or meter exchange, please contact your network operator. You can find who your network operator is on the Energy Networks Association website.

[Download the directory](#)

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		
✓	✓	✓		✓	↑						

Registration Open for **June** Operational Forum:

- Online: <https://ngt.ticketbud.com/gas-operational-forum-june-online->
- In person: <https://ngt.ticketbud.com/gas-operational-forum-june-in-person->

Q&A

Questions

To change the limits you would need to raise a MOD like the one that has been raised to allow a Wobbe reduction that comes into effect in the GSMR from April next year wouldn't you?

Answers

If a site is an existing connecting party, under UNC, TPD, Section I, there is a requirement for NGT to consult with industry if operators wish to make a change to Network Entry Provisions (which contain the gas quality limits). So if an **existing** site wished to change their oxygen gas quality parameter, there would need to be a consultation/mod.

There is no such obligation if a **new NTS entry point** wishes to connect with parameters outside of the Gas Ten Year Statement limits. There is currently no requirement for any industry engagement and no requirement for a UNC modification to be raised.

This was recognised as a gap, so a modification is being raised to consider what obligations would be appropriate regarding industry engagement for new connections. A pre-modification is being raised for June's Transmission workgroup.

Questions

Does more oxygen content have an impact upon Wobbe? E.g. more oxygen = higher Wobbe?

Answers

Effect on Wobbe at different oxygen concentrations:

Oxygen Content	Wobbe	CV
0.001 mol% (10 ppm)	50.72325	37.77873
0.2 mol%	50.57221	37.70343
1 mol%	49.9685	37.40075

Note - This is assuming the remaining gas is just Methane

The % difference between the 10 ppm limit and 1 mol% limit is:

Wobbe ~ 1.49%

CV ~ 1.00%

The increased O₂ content has less of an impact on CV than it does on Wobbe; however, the Wobbe would still be within the current GS(M)R/GTYS limits. We would then expect this to blend further with other gas in the pipe.

Q&A

Questions	Answers
<p>Have there been any updates from Ofgem relating to the GCD13 consultation? When can we expect an update?</p>	<p>Developments for charging updates related to GCD13 can be tracked here (GCD Documents). The report on GCD13 will provide an update based on the responses received and direct where any further development discussions may be followed. Further development discussions on charging updates and potential reforms can be found by following the monthly NTS Charging Methodology Forum (https://www.gasgovernance.co.uk/ntscmf). This will be the most likely place to follow updates on charging development discussions. For example, there are ongoing discussions related to Transmission Services and Non-Transmission Services.</p> <p>Additionally if there are any specific questions on charging these can be sent direct to National Gas: box.ntsgascharges@nationalgas.com.</p>

Thank you



Information For Reference



How to contact us

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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](#)



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

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](#)