



# Gas Operational Forum

Clermont Hotel & MS Teams

23rd November 2023

Will start at 10:02am



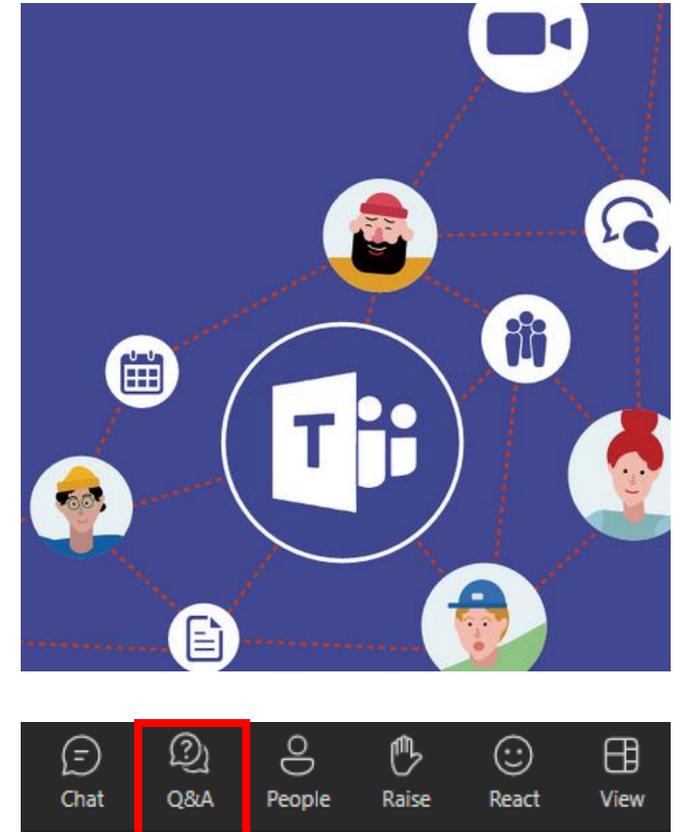
# Introduction & Agenda

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.
- You can ask questions **via Teams – Q&A**
- We have included some time to answer questions following the presentations.



# Agenda for Today

Welcome and Introduction	Nicola Lond – Operational Liaison & Business Delivery Manager	10:02
Operational Updates	Ffion Davies-Cale - Head of Operational Delivery	10:05
Future System Operator Overview	Paul Sullivan – Head of System Capability & Risk Rob Gibson – FSO Whole Energy System Transformation Manager (National Grid)	10:20
Incentives Performance Quarterly Update	Anna Stankiewicz - Principal Incentive Performance Management Analyst	10:40
Ice Endex – OCM Market Update	Wouter De Klein – Ice Endex	11:00
General Updates	Nicola Lond – Operational Liaison & Business Delivery Manager	11:20
Ops Forum 2024	Nicola Lond – Operational Liaison & Business Delivery Manager	11:30
AOB & Close	Nicola Lond – Operational Liaison & Business Delivery Manager	11:45

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

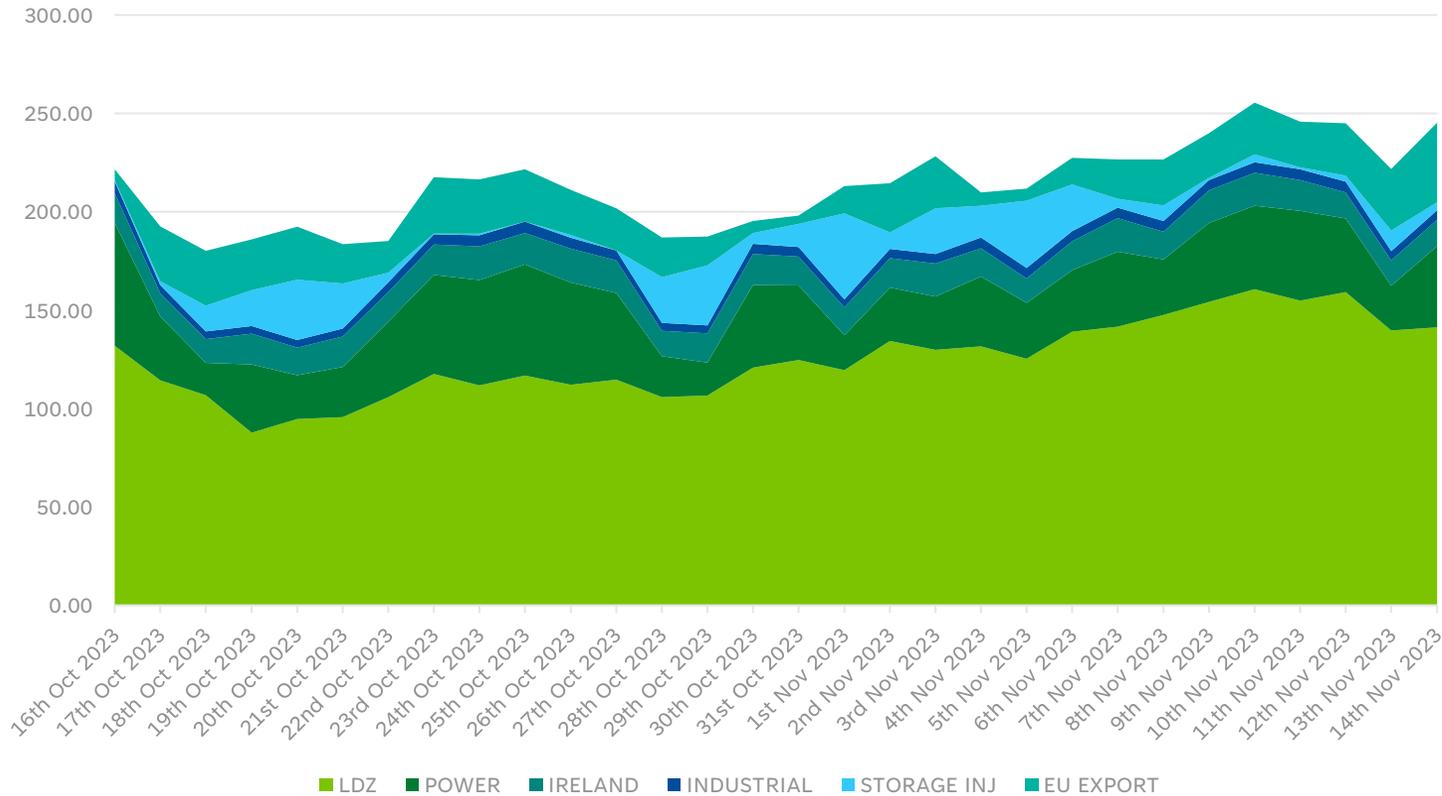


# Agenda

- UK demand
- Power Station Demand
- Storage – UK and EU
- Interconnector Exports
- LNG imports – Milford Haven and Isle of Grain
- Comparison of flows

# NTS Demands

UK Gas Demand



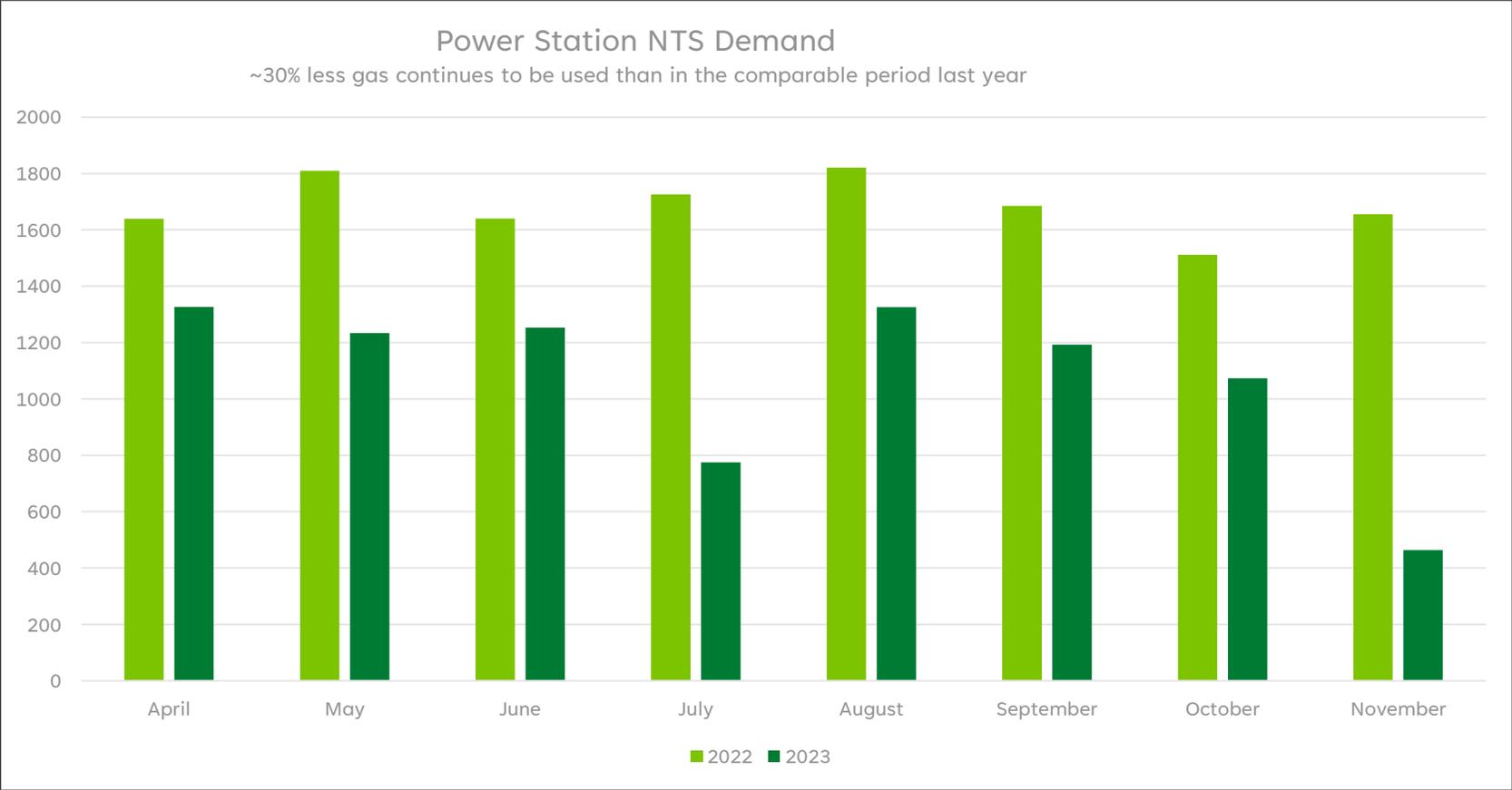
Demand over the past few weeks has been steadily increasing, which isn't unexpected for this time of the year. Linked to the colder weather.

Storage Injection has tailed off and we have seen a lot more storage withdrawal during higher demand periods.

Gas for power has also varied a lot over the past month, highlighting the need for a quick response for when renewable production isn't available. Gas for power generation ranging between 63mcm/d and 16mcm/d

European exports have started to increase slightly over the past few weeks prior to INT outage.

# Power Station NTS Demand (to 14<sup>th</sup> November)

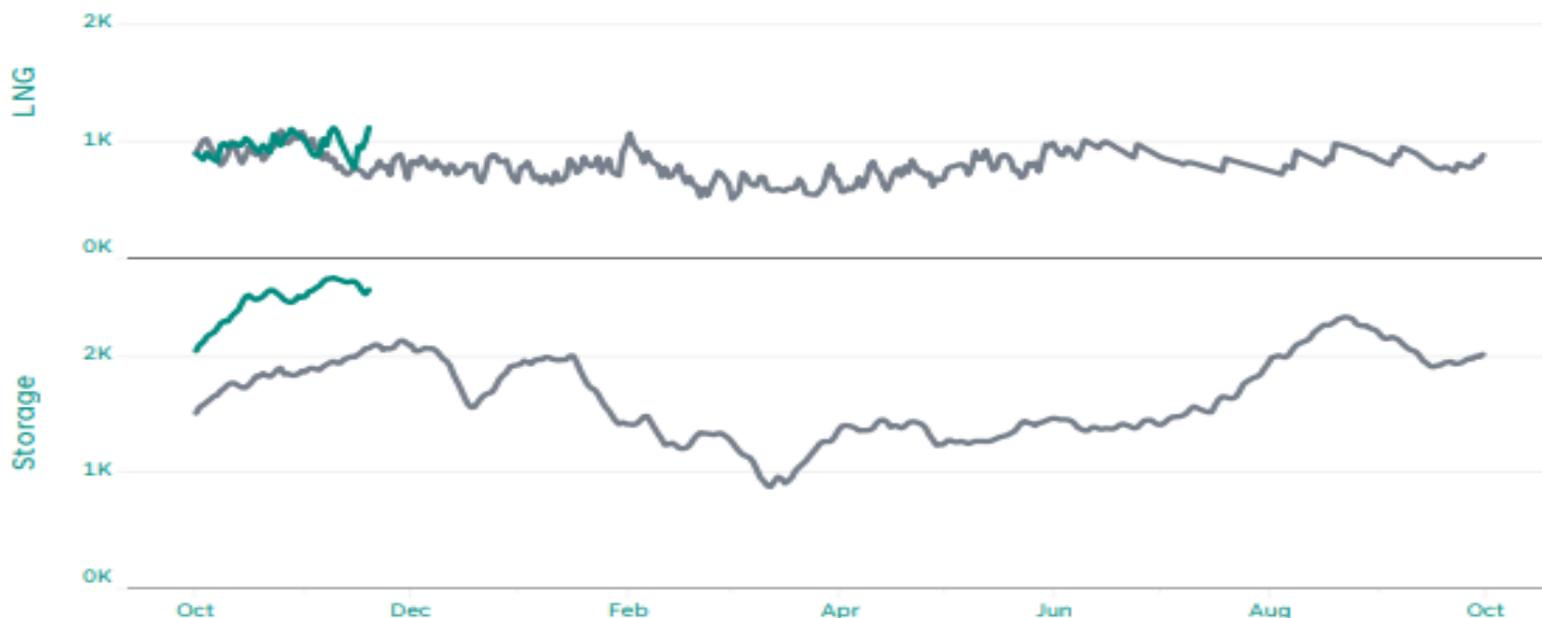


## LNG & Storage stock (mcm)

### Total LNG Stock and Percent Full

Snapshot as of: 19 November 2023

**1,144 mcm**  
**89% full**



### Total GB Storage Stock and Percent Full

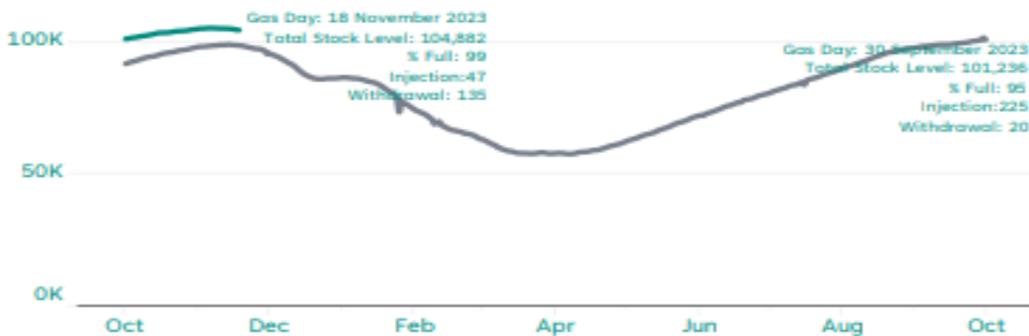
Snapshot as of: 19 November 2023

**2,611 mcm**  
**78% full**

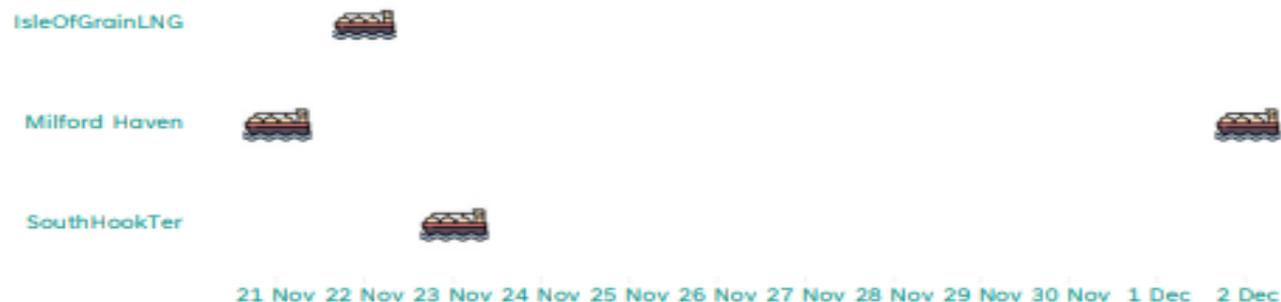
(LRS 70%)

(MRS 85%)

## EU storage stock (mcm)



## LNG Arrivals



Data as of beginning of gas day 19/11/23

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

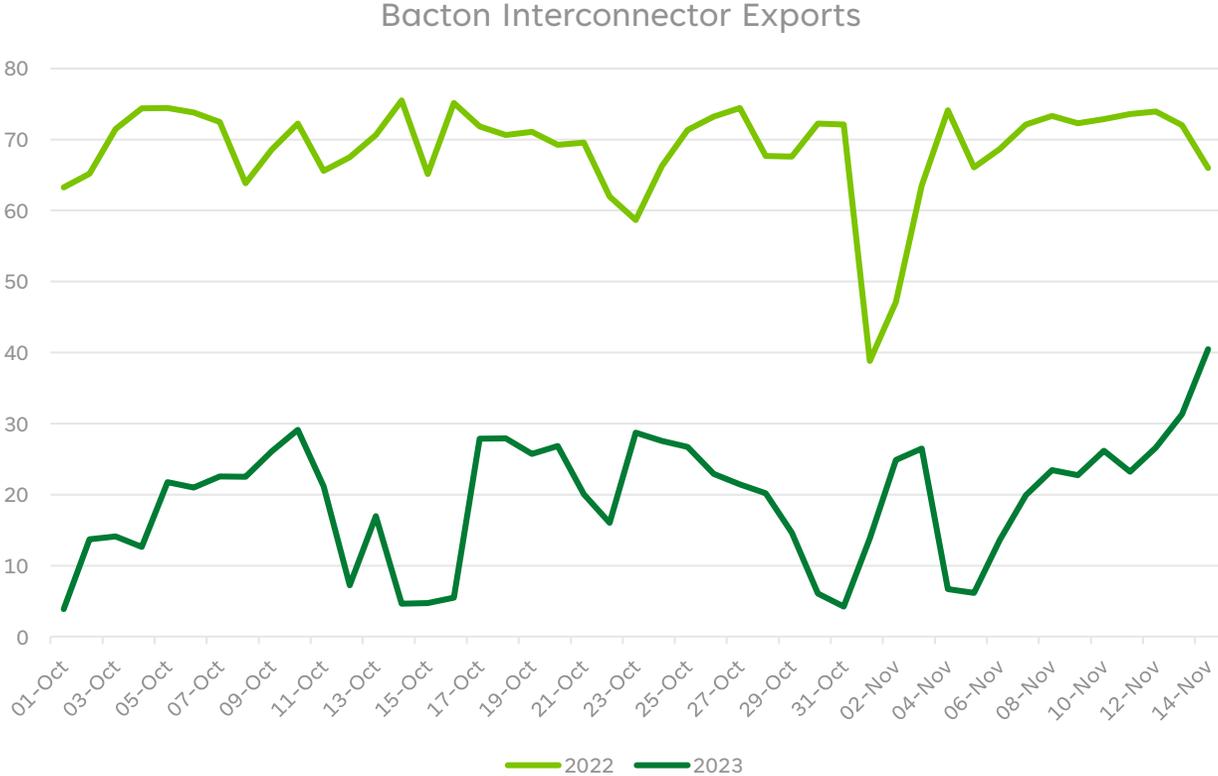
2023/2024

2022/2023

# Interconnector Exports

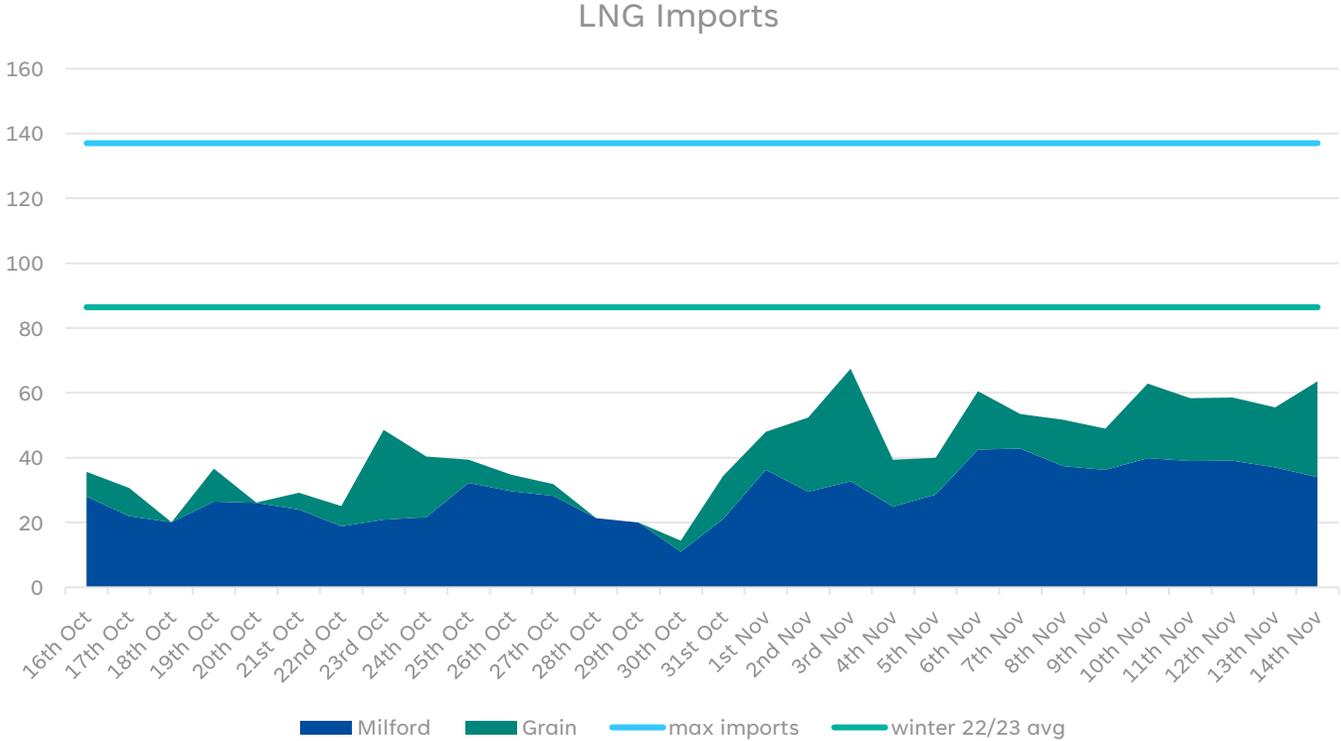
Exports to Europe have continued to be low as we've moved through October and November.

With European storage being full this is not expected to change significantly in the coming months.



# LNG Imports

LNG imports have picked up slightly as we've moved into November, but still remain below the levels of last winter.



# Comparison of flows

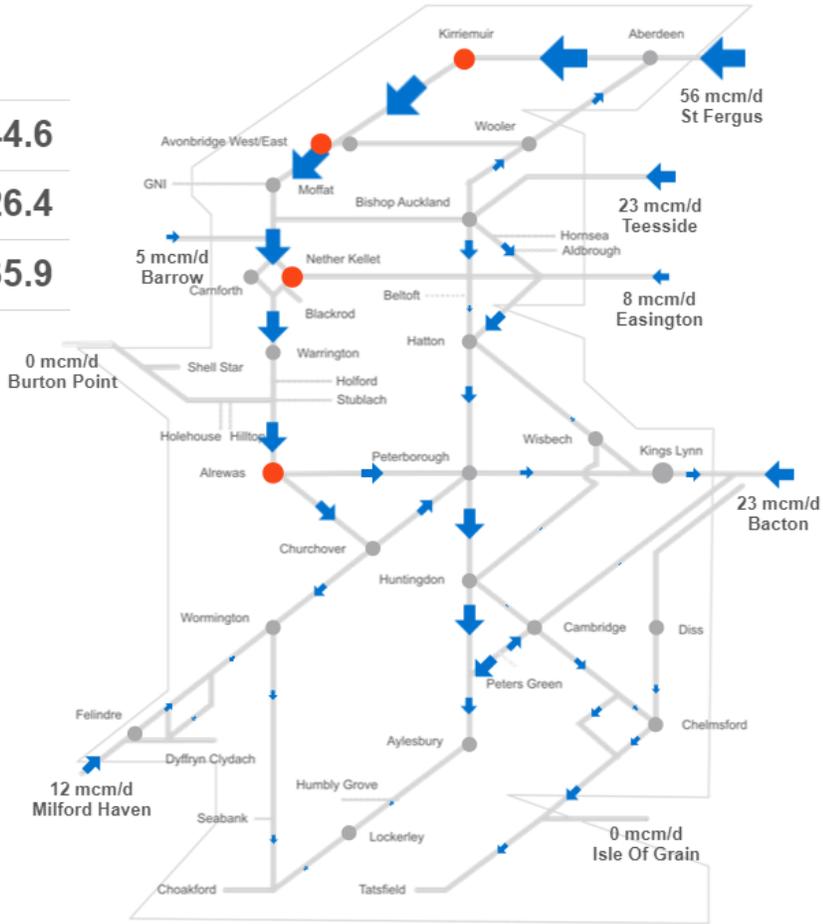
Select Hour

08/06/2023 05:00

Note that simulated flows are only available from gas day 23/11/19

Hover over points for more detail

NTS Demand	<b>144.6</b>
NTS Supply	<b>126.4</b>
NTS Linepack	<b>335.9</b>



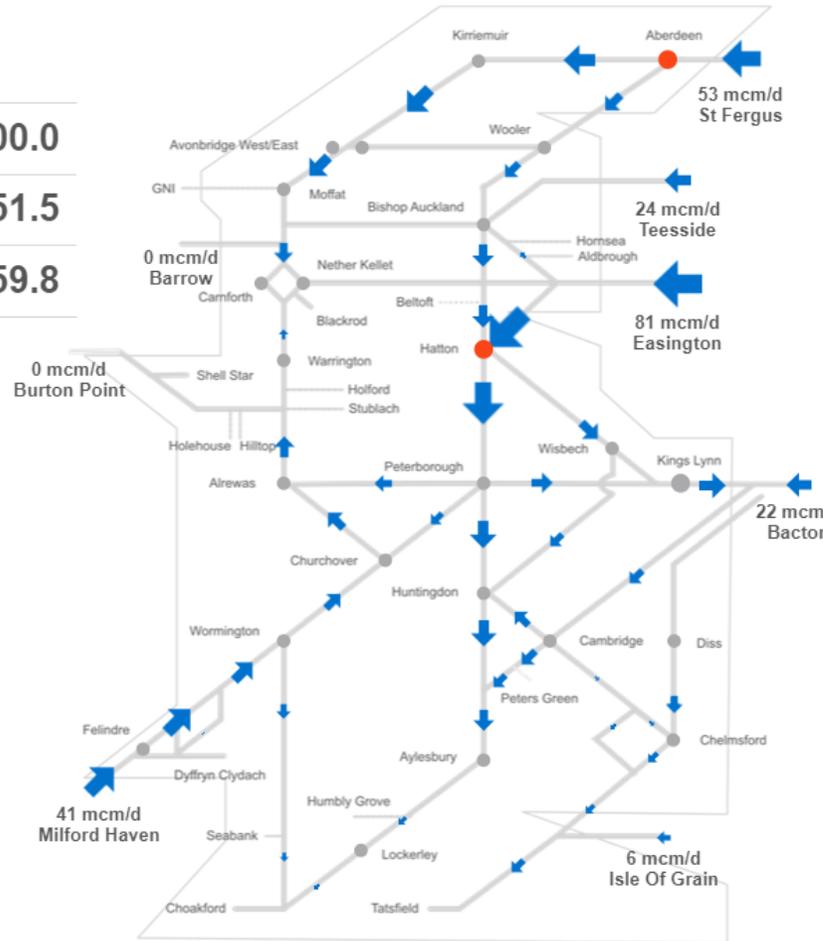
Select Hour

09/11/2023 05:00

Note that simulated flows are only available from gas day 23/11/19

Hover over points for more detail

NTS Demand	<b>200.0</b>
NTS Supply	<b>251.5</b>
NTS Linepack	<b>359.8</b>





# Future System Operator

Paul Sullivan & Rob Gibson

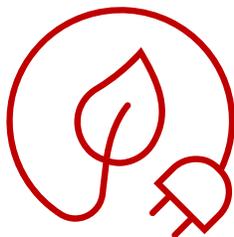




# **FSO Overview**

**Gas Ops Forum – 23<sup>rd</sup> of November 2023**

# Ambition for the FSO



An **independent** organisation with a mandate to deliver **net zero system operation**, with enhanced **data and digital capability**



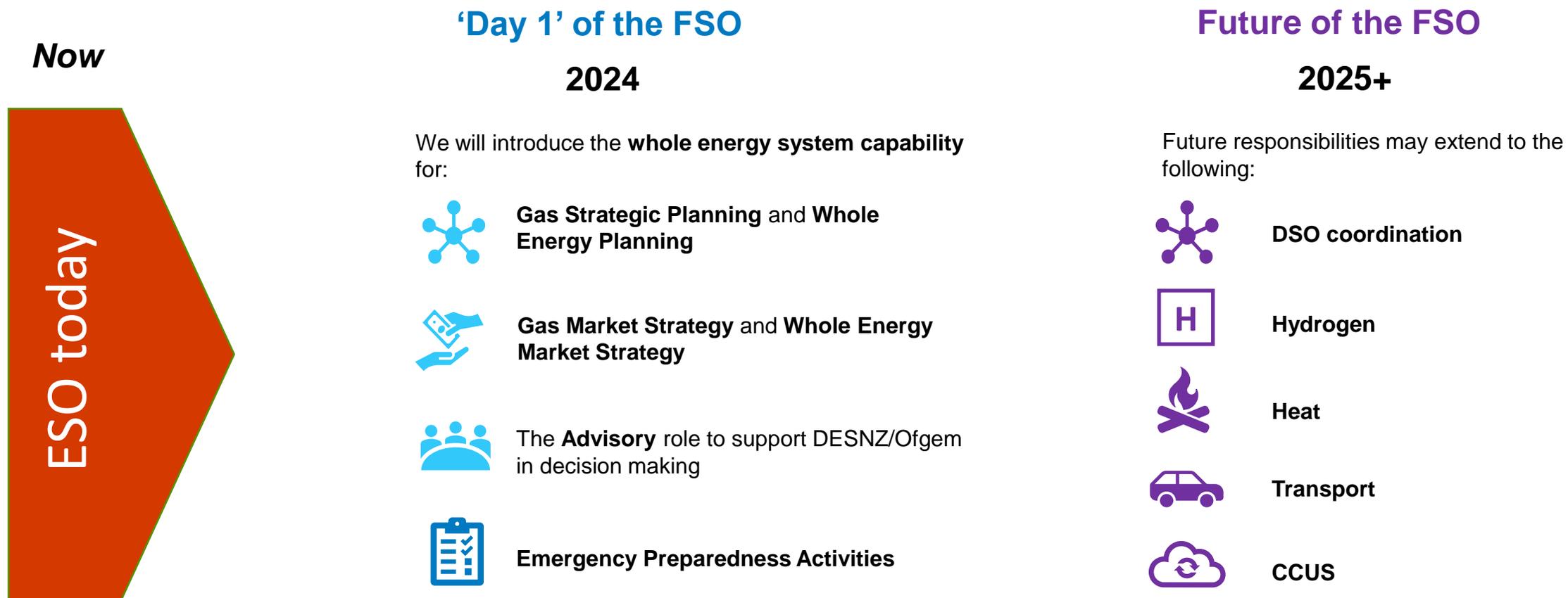
Act with a **whole energy system view**, bringing parties together to support **optimised decision-making and action** in the decarbonisation of power, heat and transport



Working with policy makers and regulators, and advising more broadly across the energy sector, to **unlock value and accelerate the net zero transition**

# The role of the FSO will evolve over time

The FSO is about the creation of an expert and impartial body with duties to facilitate net zero whilst also maintaining resilient and affordable whole energy systems





# Q2 2023/24 Gas Incentive Performance

Anna Stankiewicz  
Incentives Analyst

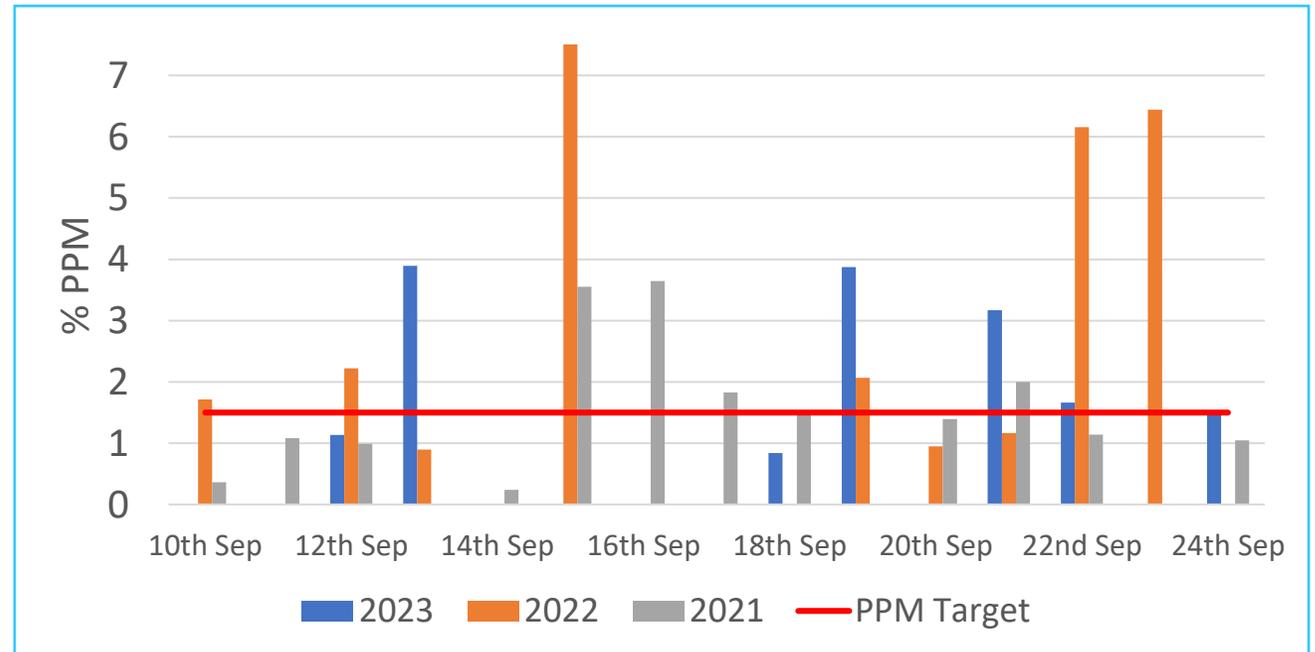
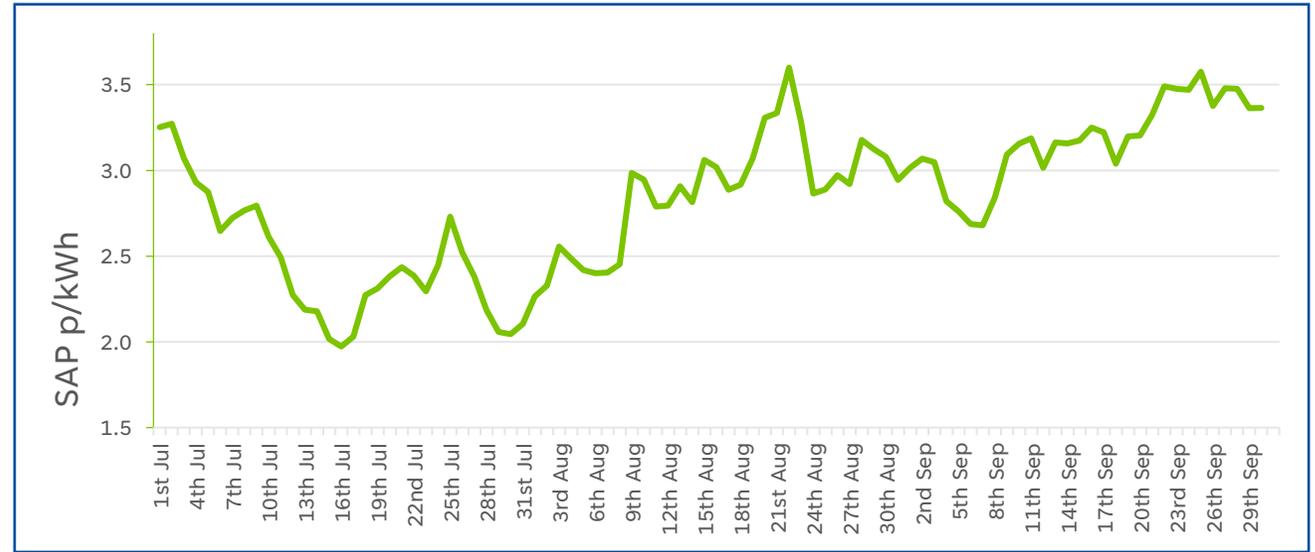


# Residual Balancing

- 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

## Q2 Performance

- Average Linepack Performance Measure (LPM): 1.8mcm (2.3 mcm last year).
- Average Price Performance Measure (PPM): 0.8% (4.6% last year).
- Traded on 127 out of 183 days or 69% of days. Last year's equivalent period was 130 out of 183 days or 71% of days.





# 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.



## Q2 Performance

- Vented Emissions to date: 1030 tonnes, (468 during Q2)
- Used 36% of allowance vs 34% up to same point last year.
- Compressor running hours – 20,240. 27% decrease from the same period last year.

- Unit inhibition – allows non-critical units (53% of the fleet) to be temporarily isolated from the network. The process involved the engine internals being sprayed with an environmentally friendly preservative spray.

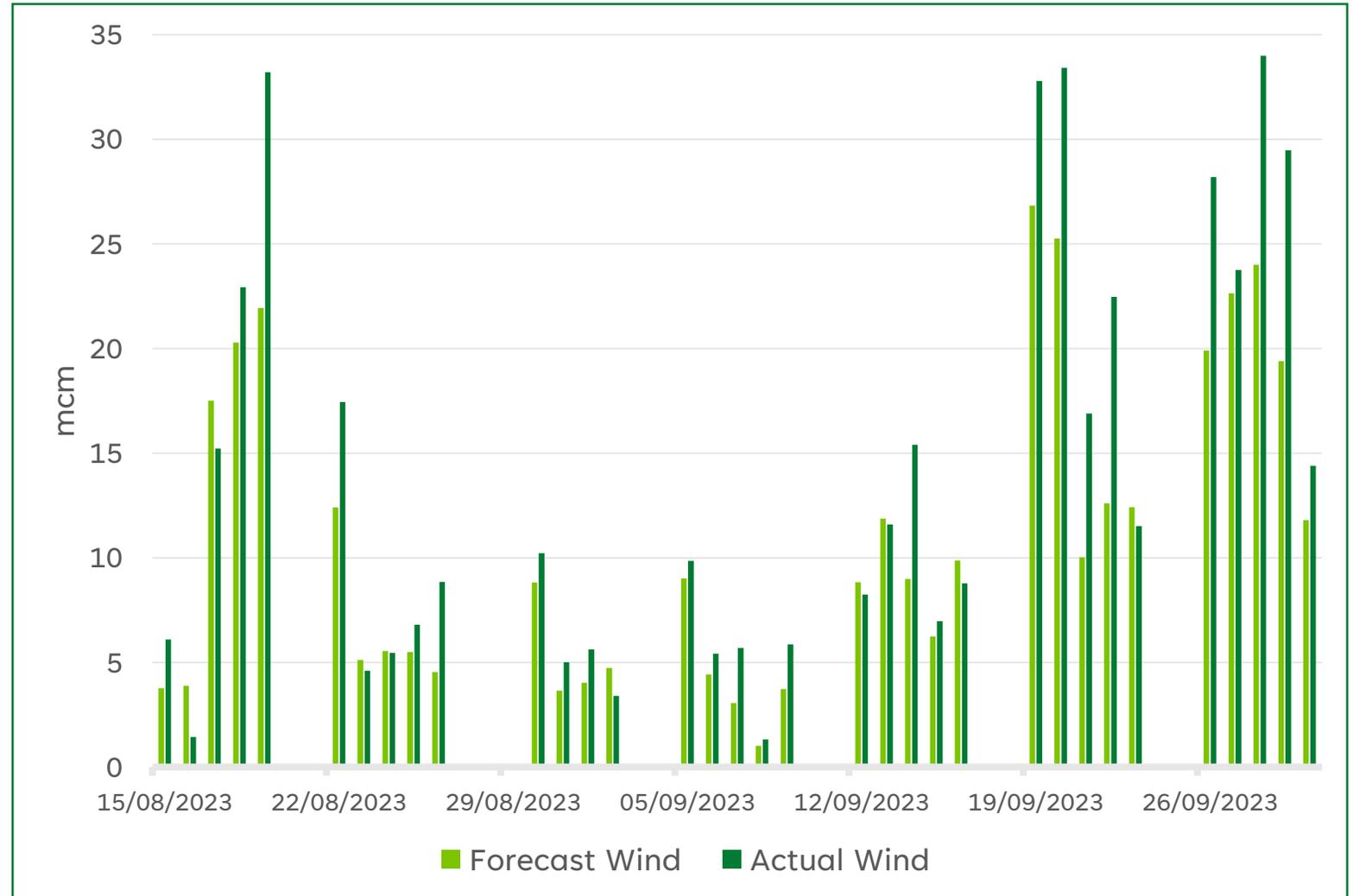
2021/22	2022/23	2022/23
12 (34%)	7 (20%)	4 (11%)

# 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

## Q2 Performance

- Average daily error of 7.70 mcm in Q2.
- DFSA = 0.0
- Average demand 145mcm, last year 209.80mcm. Higher volatility at 9.02 compared to last year 8.60.
- Wind forecast changing impacting 10mcm daily.



# 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

## Q2 Performance

- Non-Obligated Capacity released in July window
- No Bacton Exit non-obligated release requirement
- Emerging constraint risk has been managed through use of operational tools, planning and strategy.

## Non-obligated requests – July Window 2023

Requested Capacity (mcm/d)	Unsold Capacity (mcm/d)	Non-Obligated allocation (mcm/d)	Value (£)	Incentive Revenue (£)*	Decision
5.2	4.8	0.4	267,665	14,614	Accepted
5.7	0.0	5.7	2,914,802	159,148	Rejected

*\*post Sharing factors*

- Extremities of the network where release of additional capacity might present a risk
  - points which are far away from supplies (or have unpredictable supply)
  - points surrounded by high demand
  - points at the end of a long stretch of the network
  - combination of the above
- Even if rejected, non-obligated capacity can be requested in short term auctions where its release will be assessed on short term basis.

# Summary of performance

Incentive	Target	Performance Q2 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	1030 tonnes (36% of allowance)
Demand Forecasting	8.35mcm + up to 1mcm DFSA	7.70mcm
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 November: <https://www.nationalgas.com/document/144141/download>.
- Q3 incentives performance will be summarised at the February 2024 Gas Ops Forum.
- More information: [Gas Operator Incentives](#).

## Contact:

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

**Thank you**





# OCM Market Update National Gas Operational Forum

Wouter de Klein  
Senior Director, Utility Markets

23 November 2023



For a copy of the slides, please  
email [Wouter.DeKlein@theice.com](mailto:Wouter.DeKlein@theice.com)

# General Updates

Nicola Lond  
Operational Liaison & Business Delivery Manager

# Gas Data Portal Updates



## 1 Daily Storage and LNG Operator Information Report

- We previously communicated that the *Daily Storage and LNG Operator Information Report* will be available in our Gas Data Portal.
- Due to delays in source system projects we will now be releasing this report in Spring 2024.
- For now the report will still be available on our website [Transmission operational data | National Gas](#)

## 2 Bookmarking our URL

- Our new Gas Data Portal has been live for over 3 months. Please bookmark the latest url as we are starting work to remove the old url.
- Url is: <https://data.nationalgas.com/>

## 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/w8szn33rXF>



# Gemini Sustain update



National Gas Transmission, in partnership with Xoserve and Correla, is undertaking a programme of work to significantly modernise and enhance the Gemini Platform.

[Gemini Sustain Plus \(xoserve.com\)](https://xoserve.com)

## Focus groups

National Gas have launched a series of Gemini Sustain Plus focus groups.

The next focus group session will be held virtually via Microsoft Teams on **22 January 2024** from **1 - 3pm**.

This will be an informative session and an opportunity to meet the teams from National Gas and their delivery partners Xoserve, Correla and Wipro.

Watch [National Gas' short video](#)  to find out more about the focus groups.

If you wish to attend and haven't received the Teams invite please email [geminichanges@correla.com](mailto:geminichanges@correla.com)

Email us

# Publication highlights



## Operating Margins ITT 24/25

<https://www.nationalgas.com/uk/gas-transmission/balancing/operating-margins-om>



## Gas Transportation Charging Guide

<https://www.nationalgas.com/gas-transmission/document/144651/download>



## GB Balancing Guide

<https://www.nationalgas.com/document/103476/download>



## Gas Query Directory updated – Who to contact for help in GSO

[Contact us | National Gas](#)



## Gas Ten Year Statement - To be published in December

[Gas Ten Year Statement \(GTYS\) | National Gas](#)

## Welcome

Welcome to our Gas Transportation Charging Guide. Here we provide information relating to our gas network and more specifically gas charging arrangements to support you in understanding how the regime works. We hope this guide is concise, easy to follow and that you find this document useful.

If you still have questions, or any thoughts on how we can improve this document please email us at: [box.ntscharges@nationalgrid.com](mailto:box.ntscharges@nationalgrid.com)

If you have any general regulatory queries, please email us at: [box.gsoconsultations@nationalgrid.com](mailto:box.gsoconsultations@nationalgrid.com)

For any capacity queries, please email us at: [box.capacityauctions@nationalgrid.com](mailto:box.capacityauctions@nationalgrid.com)

This document outlines the commercial elements of GB gas balancing activity. We hope this guide is concise and easy to follow whilst giving an overview of gas transmission network balancing activity in Great Britain. We want this information to be accessible for new customers wishing to connect to the network and for customers who are more familiar with the balancing regime.

If you still have questions, or any thoughts on how we can improve this document please email us at:

[box.gsoconsultations@nationalgrid.com](mailto:box.gsoconsultations@nationalgrid.com)



**FOR GAS  
TRANSMISSION  
QUERIES ONLY**

# Operational Forums 2024

**Nicola Lond**

Operational Liaison & Business Delivery Manager

# 2024 Operational Forums

- Thank you for your feedback on our proposals
- 8 meetings per year will continue
- Quarterly in person sessions focused on Themes whilst still covering operational updates/Interesting days etc.
- The remaining 4 meetings to be online/ potentially shorter depending on topical Operational content
- Potential to host a one off even at Warwick in addition in early July or early September for anyone wanting to learn more about National Gas Operations.
  - Is this of interest? - Please Feedback in the Teams Chat



# 2024 Operational Forum Programme



Jan 25th	Feb 22nd	Mar 21st	Apr	May 16th	Jun 20th	Jul	Aug	Sep 19th	Oct 17th	Nov 21st	Dec
In person & Online	Online Only	In person & Online	X	Online Only	In person & Online	X	X	Online only	In person & Online	Online only	X
Future		Maintenance			Winter Review/ Summer outlook				Winter Focus		

Operational overview/ interesting days/topical content/Q&A

## Operational Liaison Business Delivery

Our team acts as the customer SPOC for the System Operator, building and maintaining relationships across the network to improve delivery.

### Operational Forum

The Ops Forum gives us the opportunity to meet with our customers and present on key events at regular intervals throughout the year.

The Forum covers a range of Operational topics including winter and summer outlooks.

### Liaison Meetings

We offer meetings to our customers whereby we visit their site and discuss events specific to them on a rolling annual schedule. This gives them the opportunity to raise points of concerns, scheduled maintenance and future plans.

### Customer Queries

The Operation Liaison team often acts as the first port of call for customers. We often receive requests through our Operationaliaison.box that relate to day to day operations, data and general queries.

### Operational Data

Data is paramount to day to day operations for National Gas and our customers. We are the product Owner for the Gas Data Portal. Publishing real time data across the network for easy access to data for our customers. We also manage the Data Triage Process.

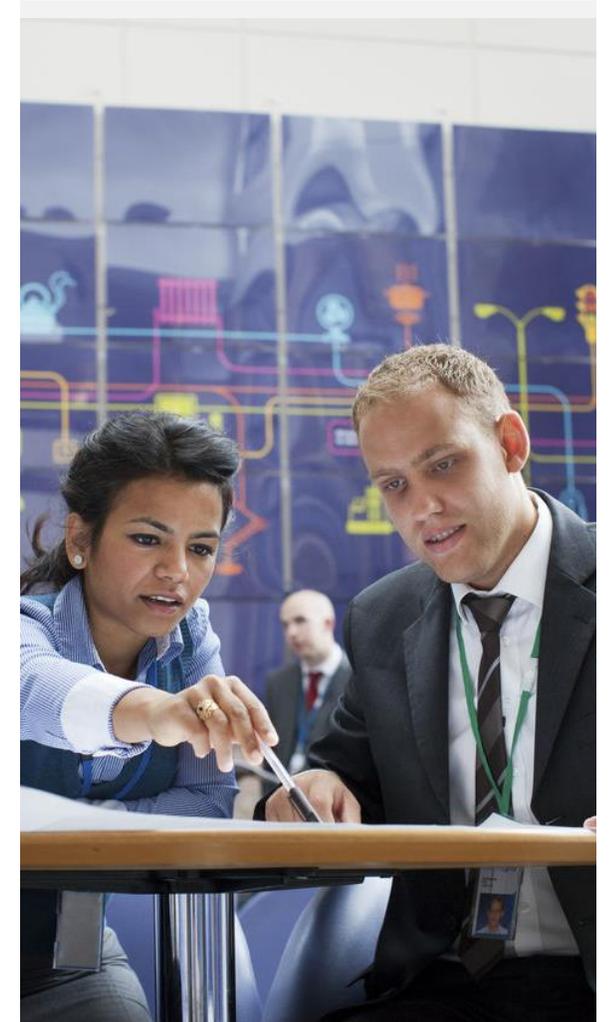
**Customer Engagement and feedback**

# How to contact us

	Operational Liaison Team	Box.OperationalLiaison@nationalgrid.com
Nicola Lond	Team Manager	<a href="mailto:Nicola.j.lond@nationalgas.com">Nicola.j.lond@nationalgas.com</a>
Craig Shipley	Snr Operational Liaison Officer	<a href="mailto:Craig.Shipley@nationalgas.com">Craig.Shipley@nationalgas.com</a>
Charlotte Gillan	Snr Operational Liaison Officer	<a href="mailto:Charlotte.Gillan@nationalgas.com">Charlotte.Gillan@nationalgas.com</a>
Niall Finn	Snr Operational Liaison Officer	<a href="mailto:Niall.Finn@nationalgas.com">Niall.Finn@nationalgas.com</a>
Gary Barnes	Snr Technical Assistant	<a href="mailto:Gary.barnes@nationalgas.com">Gary.barnes@nationalgas.com</a>

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

National Gas Website: [Gas Transmission | National Gas](#)



# 2024 Operational Forums

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

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Clermont & Online	Online	Clermont & Online	X	Online	Clermont & Online	X	X	Online	Clermont & Online	Online	X
25/01	22/02	21/03		16/05	20/06			19/09	17/10	21/11	

*Provisional Warwick Event Dates – Wednesday 3rd July or Wednesday 11th September*

Links will be sent for 2024 registration

**The Clermont Hotel**  
Charing Cross  
London  
WC2N 5HX

# 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	<a href="http://www.nationalgas.com/data-and-operations/operational-forum">www.nationalgas.com/data-and-operations/operational-forum</a>
Subscription to distribution list	Please email: <a href="mailto:box.operationalliasion@nationalgrid.com">box.operationalliasion@nationalgrid.com</a>
National Gas Transmission Website	<a href="http://www.nationalgas.com">www.nationalgas.com</a>
Maintenance Planning	<a href="http://www.nationalgas.com/data-and-operations/maintenance">www.nationalgas.com/data-and-operations/maintenance</a>

## Britain's Gas Explained

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

### 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](#)

**AOB & Questions?**

**Thank you**





**Wishing you all a warm,  
bright and merry festive  
season.**

**Look forward to seeing you  
in 2024.**



# **national gas transmission**