



# Gas Operational Forum

21st March 2024

Will start at 10:02am



# Introduction & Agenda

Nicola Lond

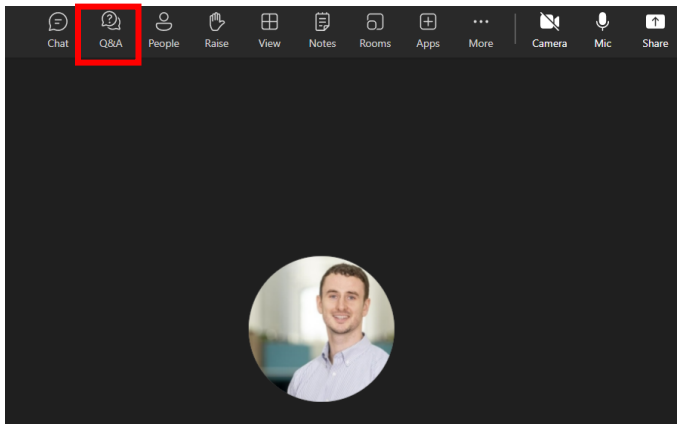
Operational Liaison & Business Delivery Manager

# Housekeeping for Forum

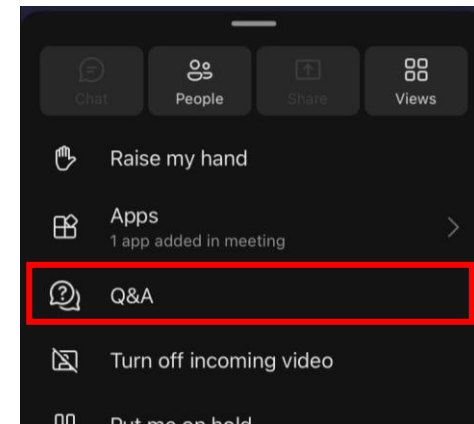
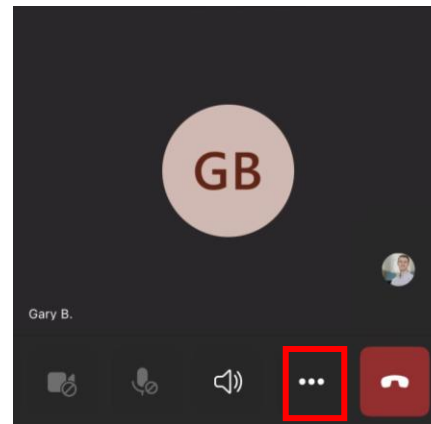
- For Microsoft Teams participants;
- Attendees will be automatically muted on dial-in and cameras will be unavailable.
- We have included some time to answer questions following the presentations.
- You can ask questions **via Teams – Q&A**



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
NESO	Paul Sullivan – Head of System Capability and Risk Toby Thornton (NESO) – Gas Network Planning Manager	10:15
Summer Maintenance	Neil Russell – Outage Planning Manager Theo Blackwell – Network Access Officer Taylor Reeves – Senior Network Access Officer Jordan Wright – Senior Project Manager	10:35
General Updates	Nicola Lond – Operational Liaison & Business Delivery Manager	11:25
Close	Nicola Lond – Operational Liaison & Business Delivery Manager	11:40

Please ask any questions using **Teams**

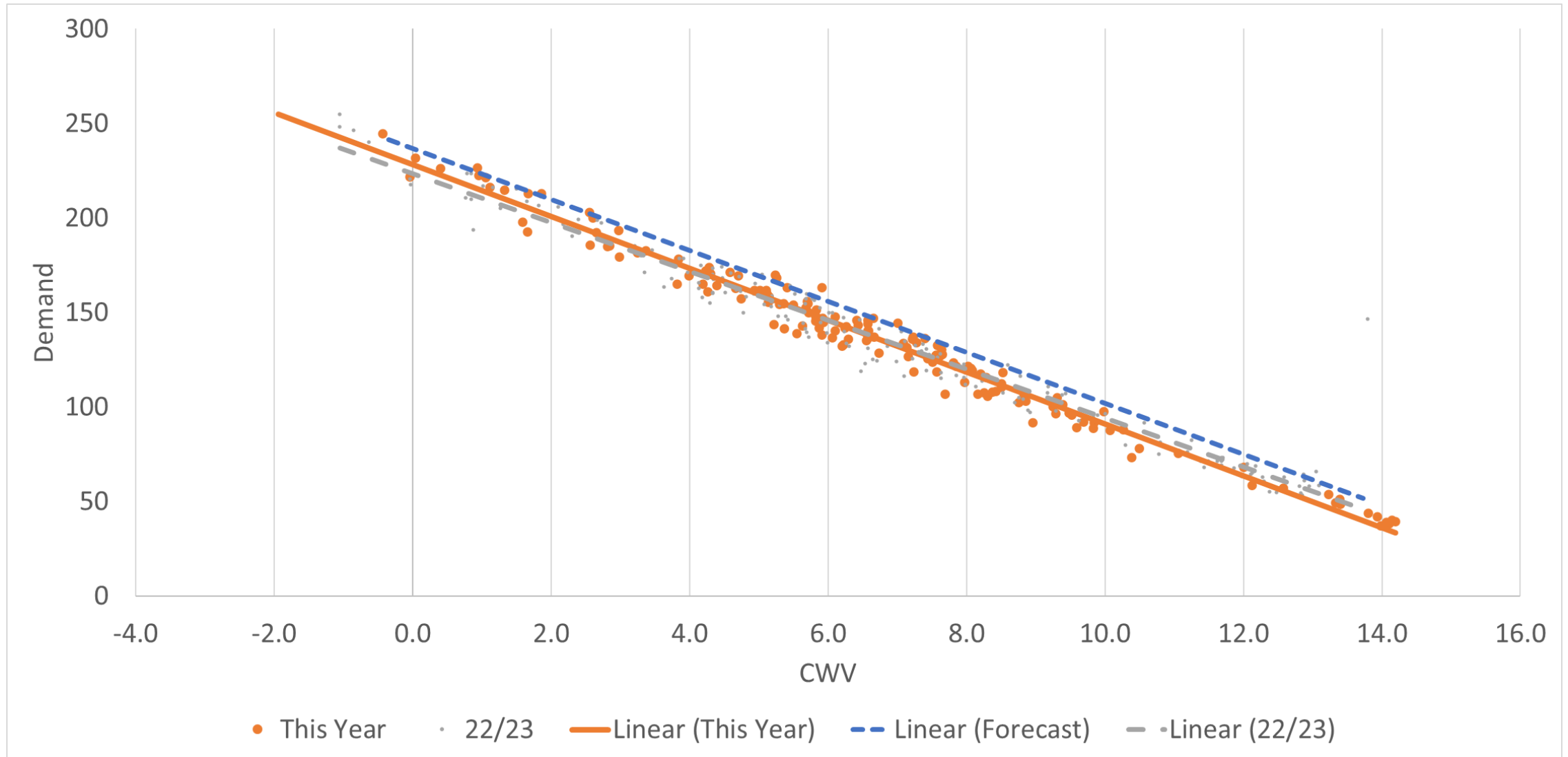
Questions will be covered at the end of each agenda section.

# Operational Updates

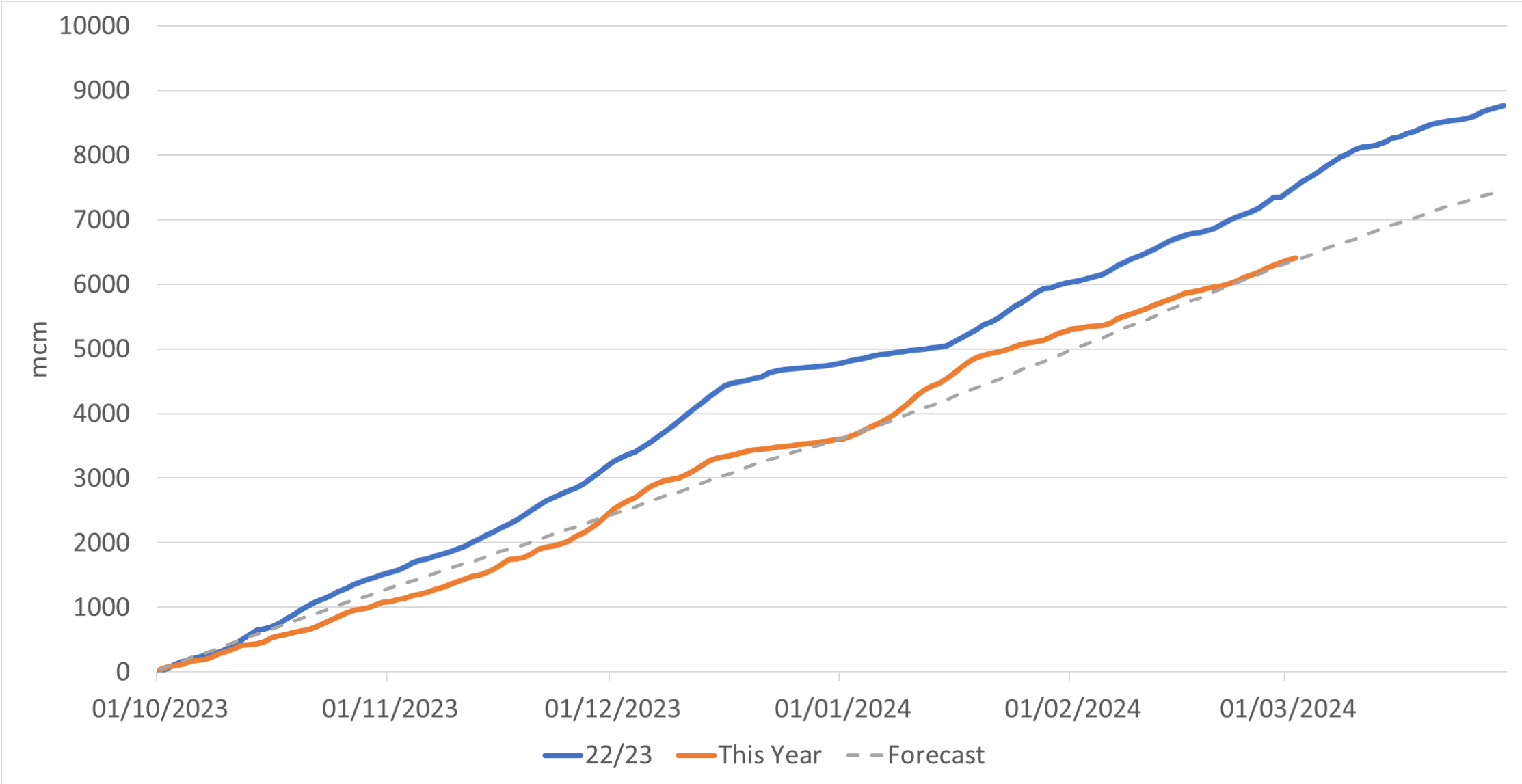
Ffion Davies-Cale  
Head of Operational Delivery



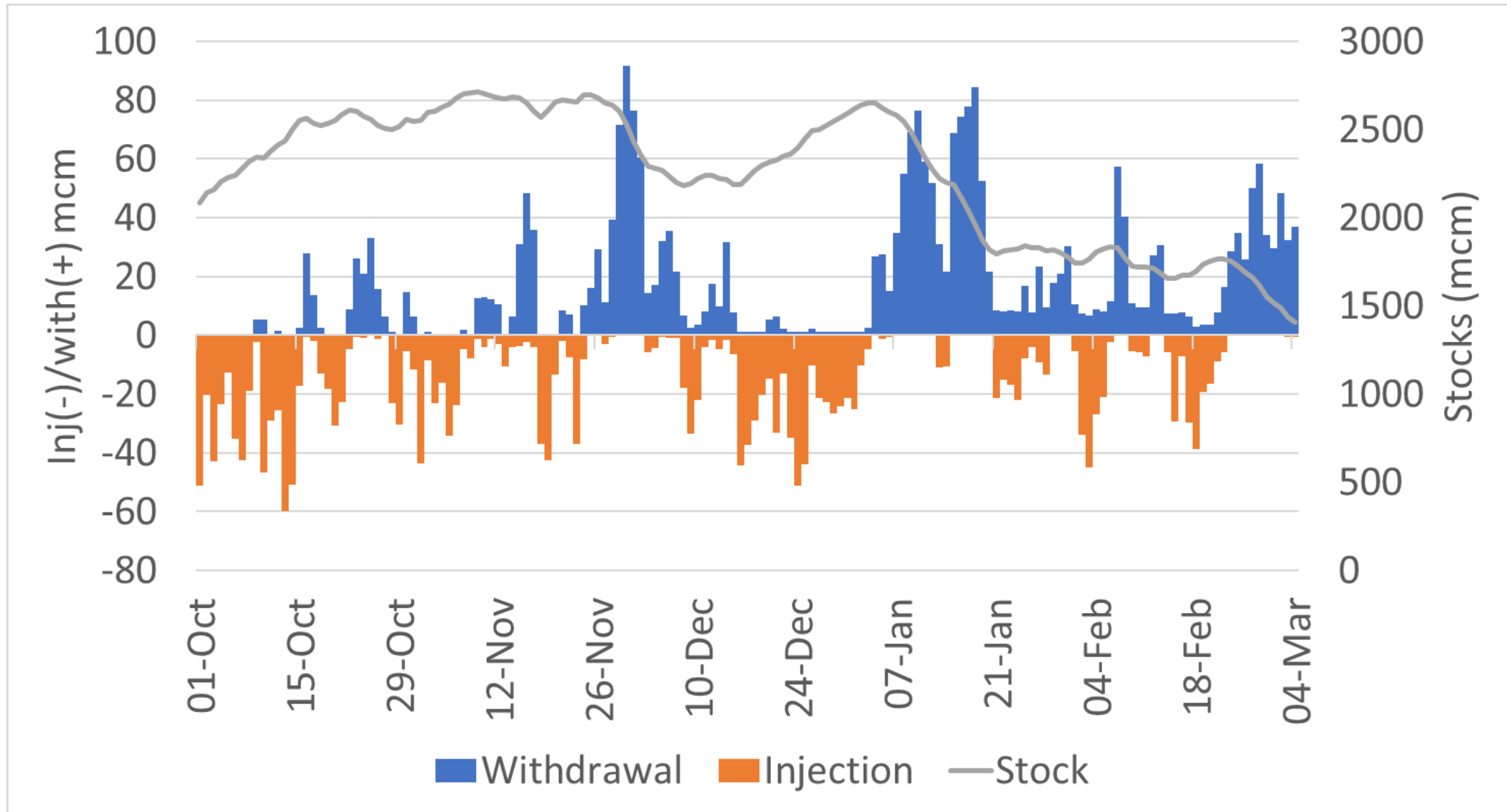
# NDM Demand



# Gas demand for power – Winter to Date

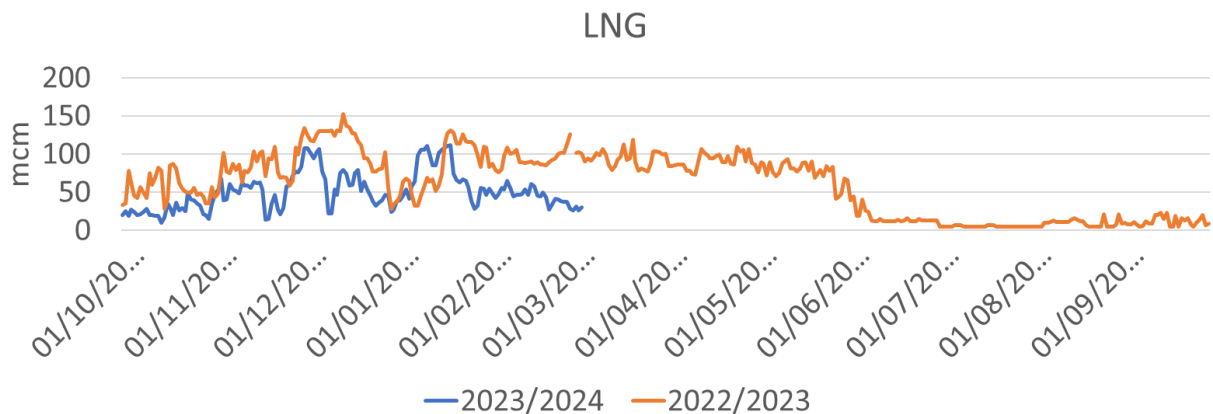
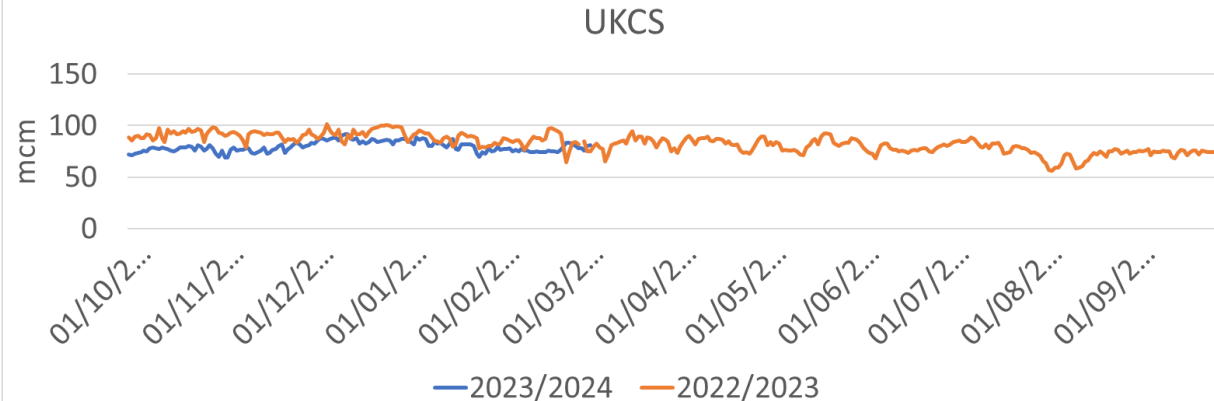
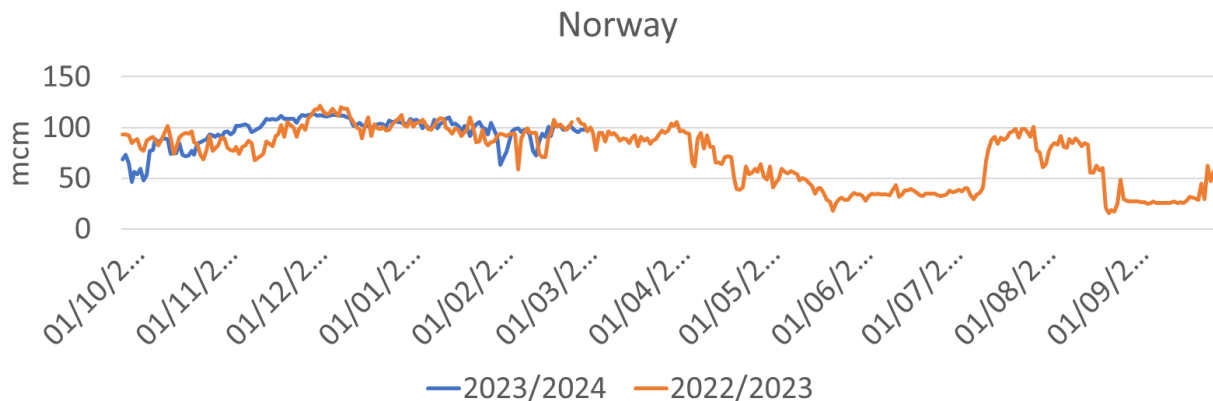


# Storage





# UKCS, Norway & LNG flows



These sources are behaving largely as expected.

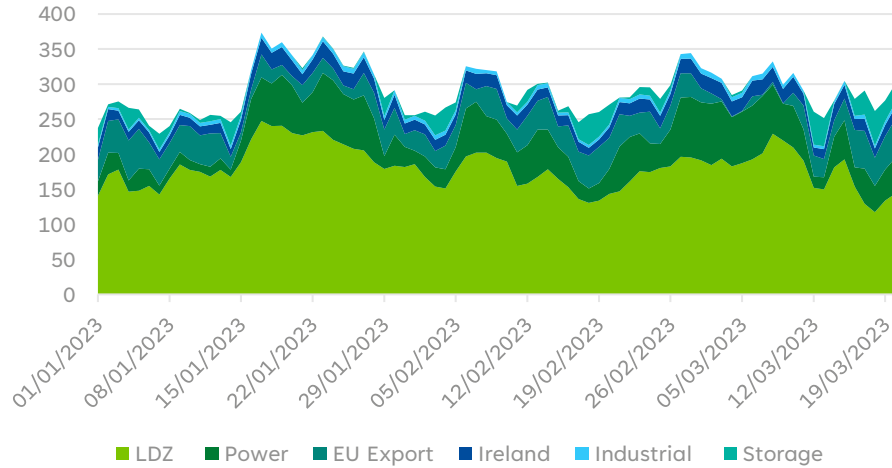
UKCS remains stable but slightly below last year

Norway stable and flowing above last year thanks to increased production

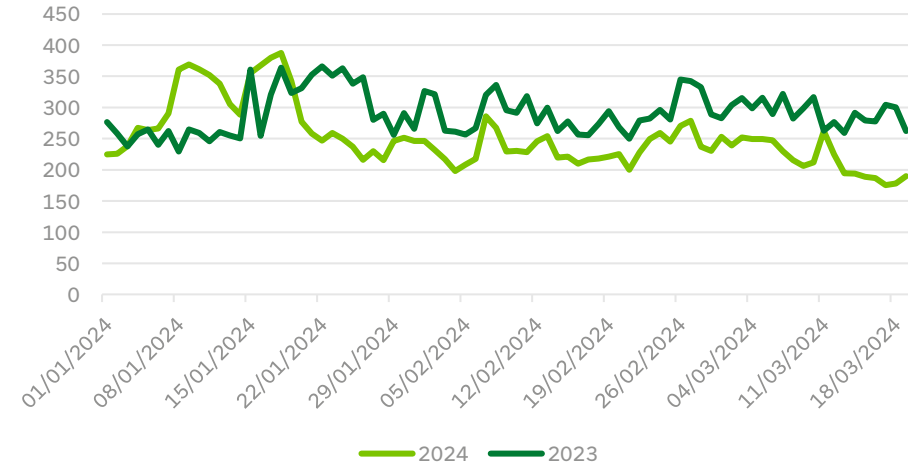
LNG lower than last year but flows have increased when needed.

# NTS Demands

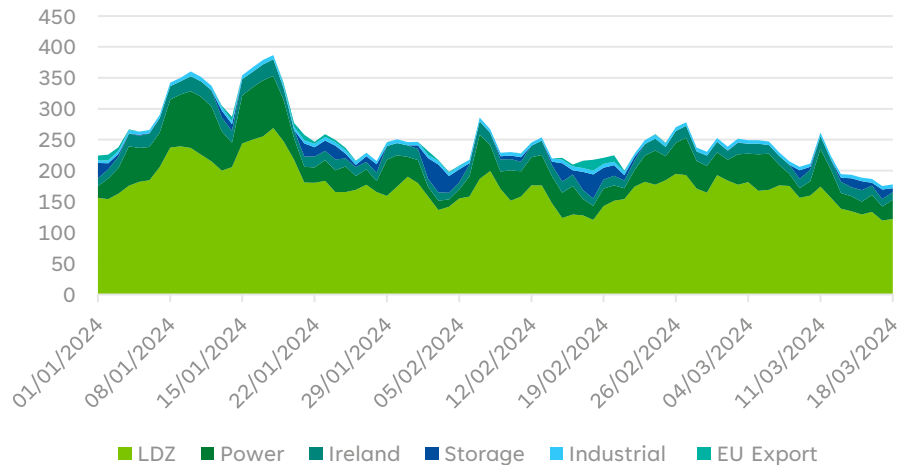
UK Gas Demand 2023



UK Demand Comparison



UK Gas Demand 2024



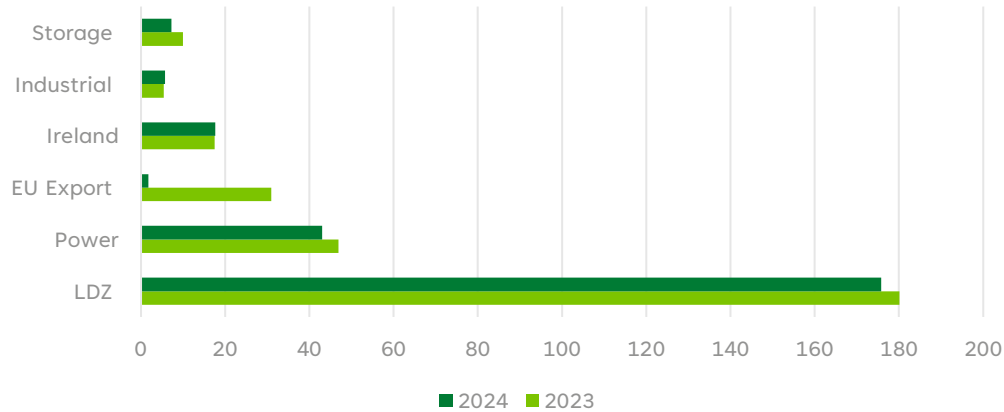
As a whole volume is down across the board when comparing the start of 2024 to 2023.

The mild winter that we have seen has shown an average reduction in 40 mscm/d compared to last year.

The main factor for the decrease in volume is the reduction in EU Export.

# Demand Comparison

UK Demand Comparison  
January - March

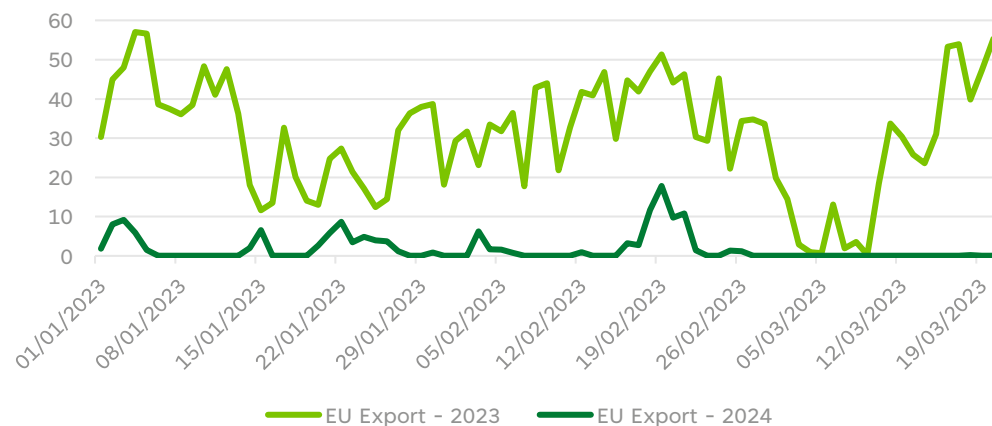


5/6 of the categories mostly mirror demand from 2023 with some slight reductions

The main difference is EU Export, with demand being on average 35 mscm/d higher per day in 2023.

In Q1 last year Europe saw greater demand than the UK market, whereas we are seeing more import than export at the beginning of 2024.

European Export Comparison  
January - March



# NESO

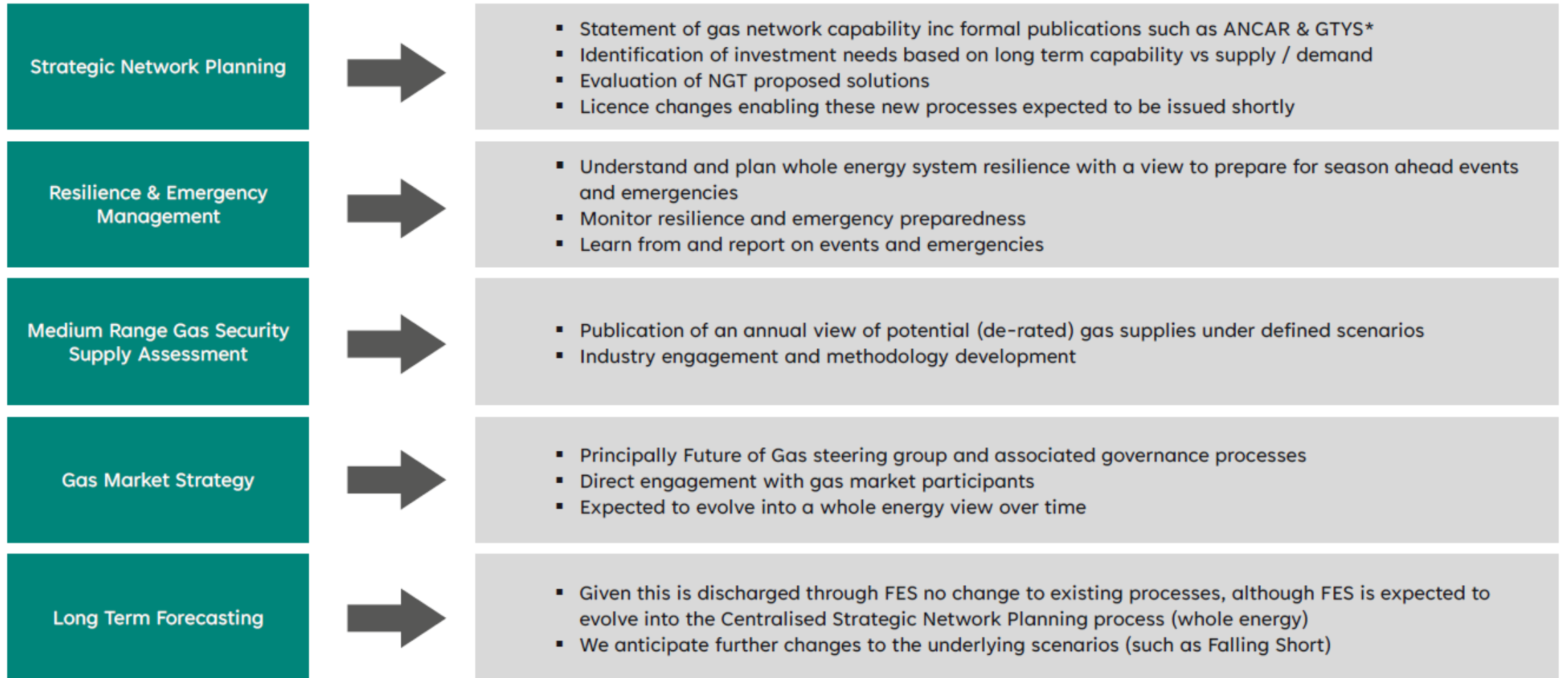
**Paul Sullivan**

Head of System Capability and Risk

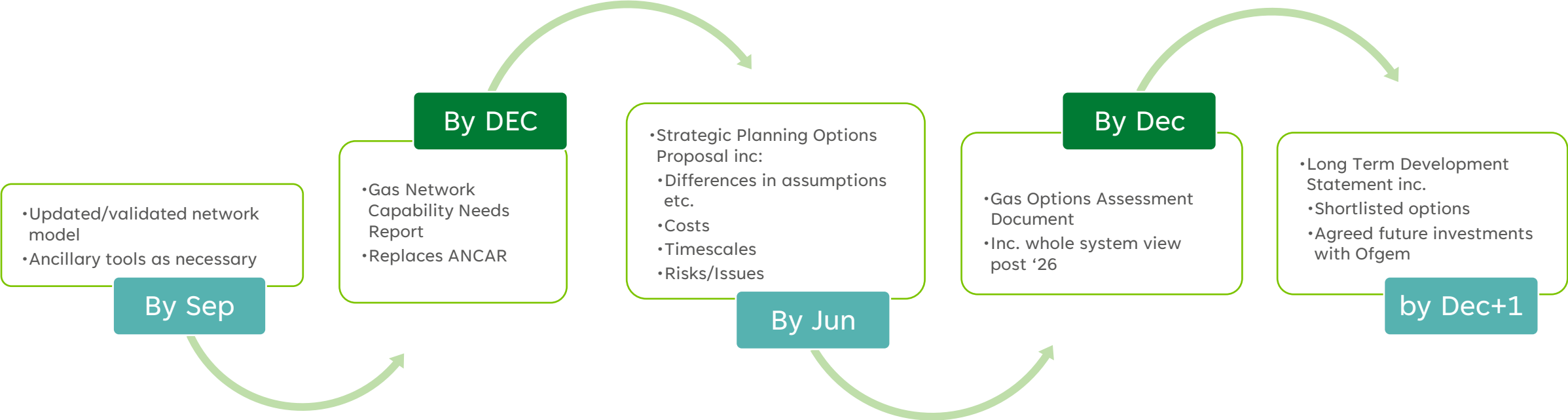
**Toby Thornton**

Gas Network Planning Manager

# NGT – NESO Interaction



# Strategic Planning with NESO – Assessment Cycle



All dates are subject to licence drafting and formal agreement

The Energy Act 2023 set the legislative framework for NESO at the heart of the energy sector – a public corporation, independent from industry and government



NESO's roles are to ensure security of energy supplies and networks, that market designs facilitate the energy transition, and **planning the energy system**



We will **coordinate system design and planning efforts across the whole energy industry** so planning and investment decisions can be optimised to deliver GB's net zero objectives at the lowest sustainable cost to consumers.

Centralised System Network Plan (CSNP) - Zero Carbon Operation (ZCO) -  
Strategic Spatial Energy Plan (SSEP) - Regional Energy Strategic Plan (RESP)

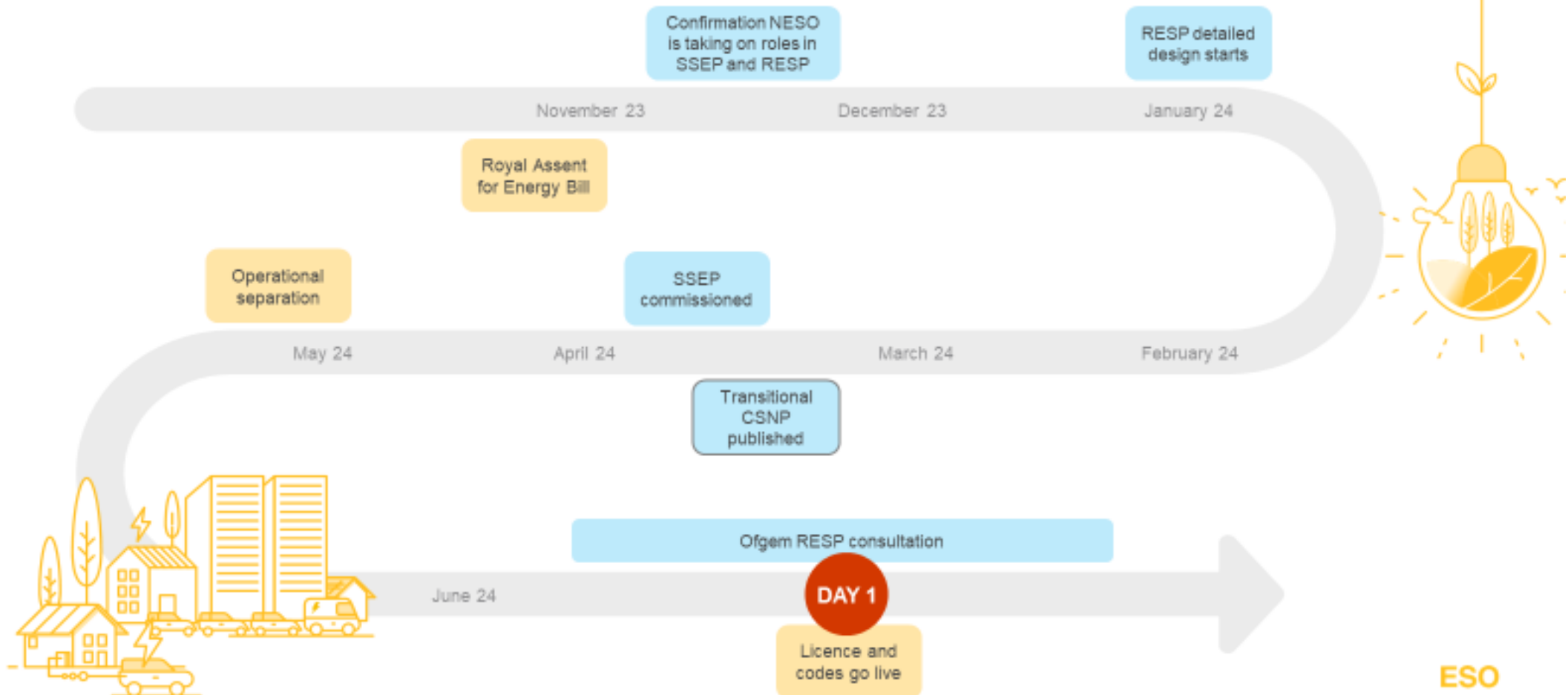
**NESO is well-placed to take this on thanks to**  
The ESO's world-leading strategic planning efforts for the electricity network

**And we're building our skills in**  
Cross-vector technical expertise and capability  
Whole system mindset and approach

**ESO**



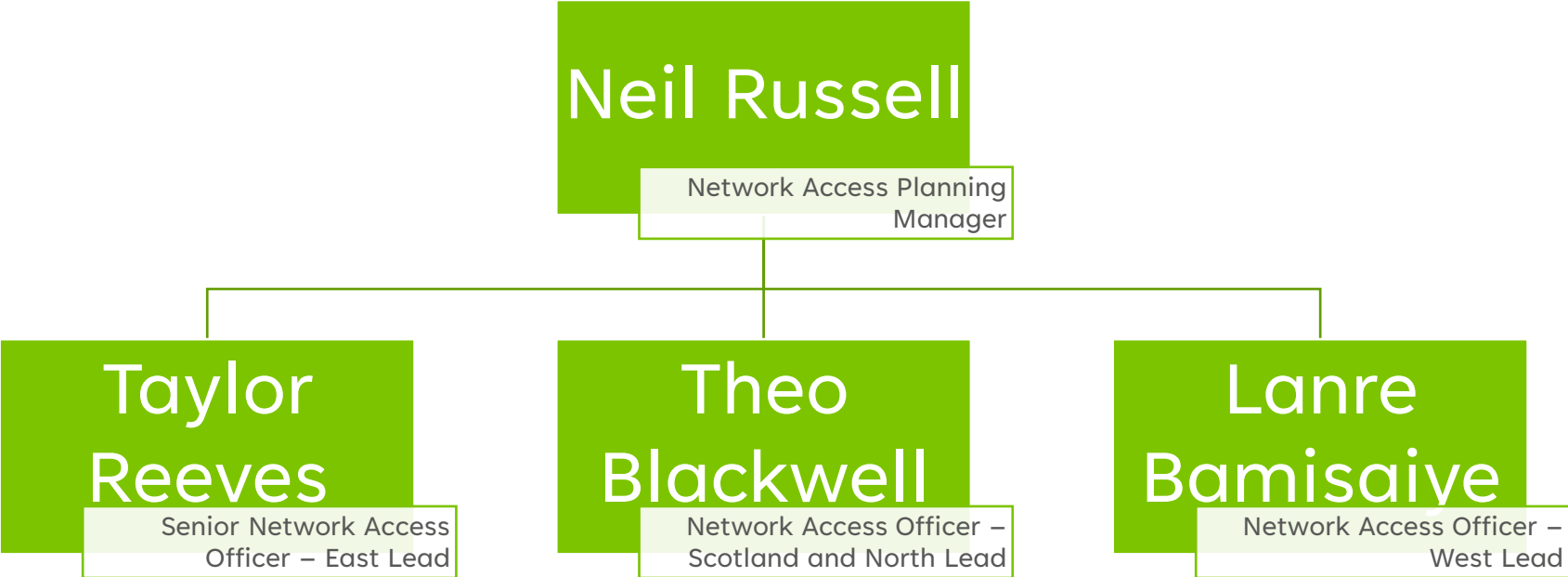
# There is still a lot to before we finally separate from National Grid plc



# Maintenance

Neil Russell  
Outage Planning Manager

# Network Access Team



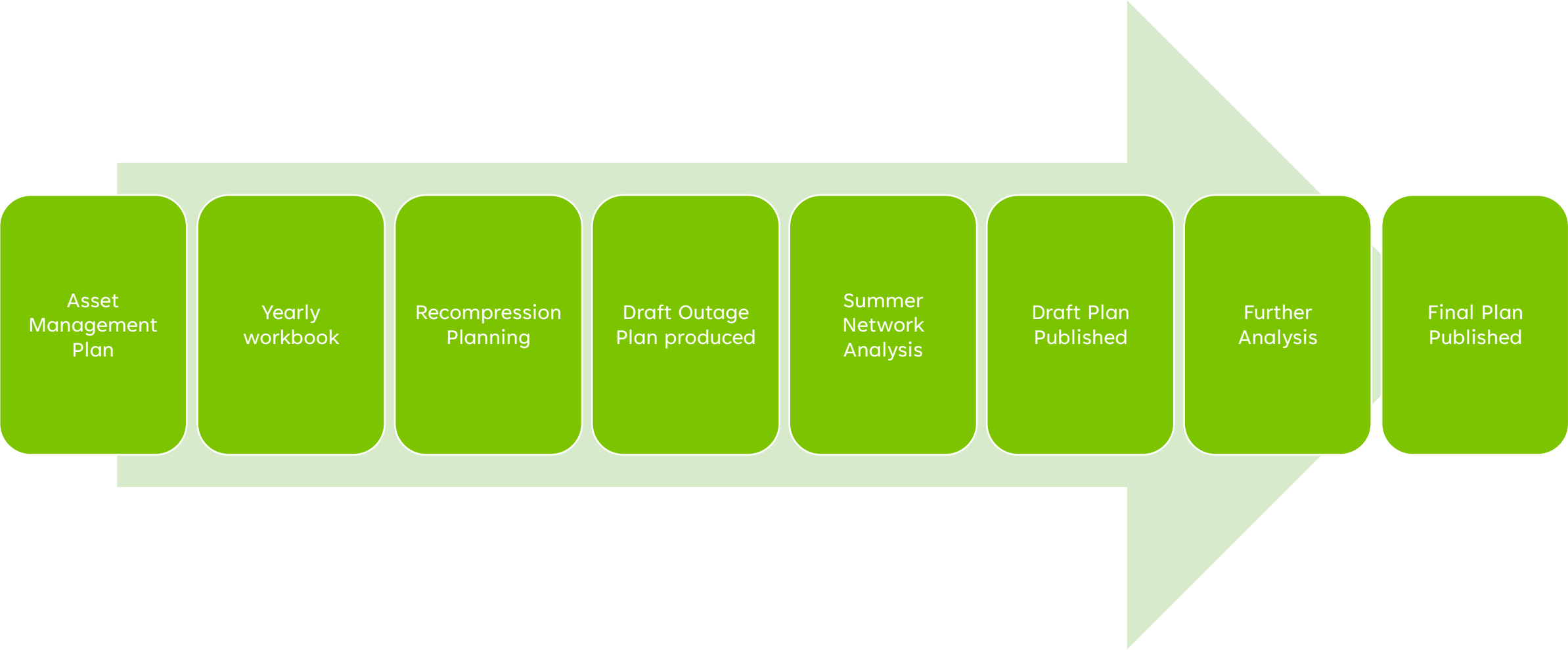
# What is an Outage



# Types of work



# Planning Process



# Planning Assumptions



**Cadent**  
Your Gas Network

**Northern Gas Networks**

**SGN**  
Your gas. Our network.

**WALES & WEST UTILITIES**

**interconnector**  
fluxys

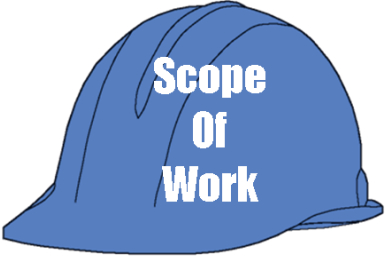
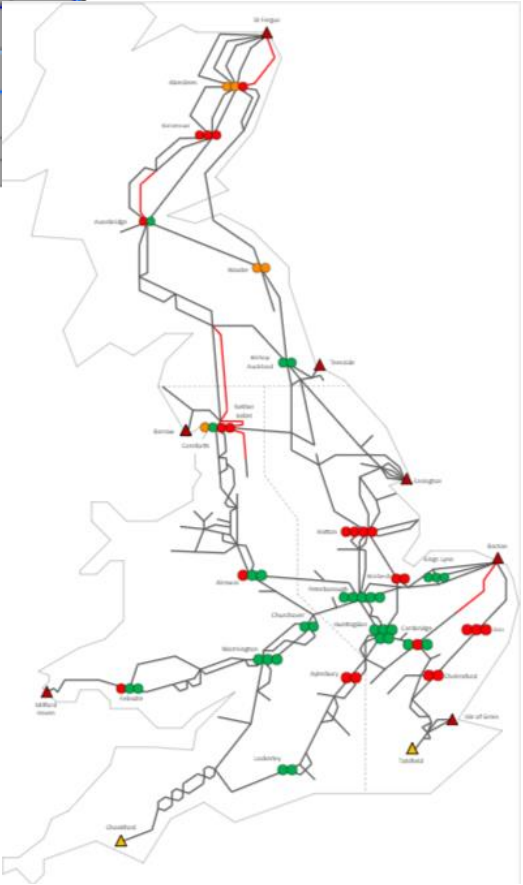
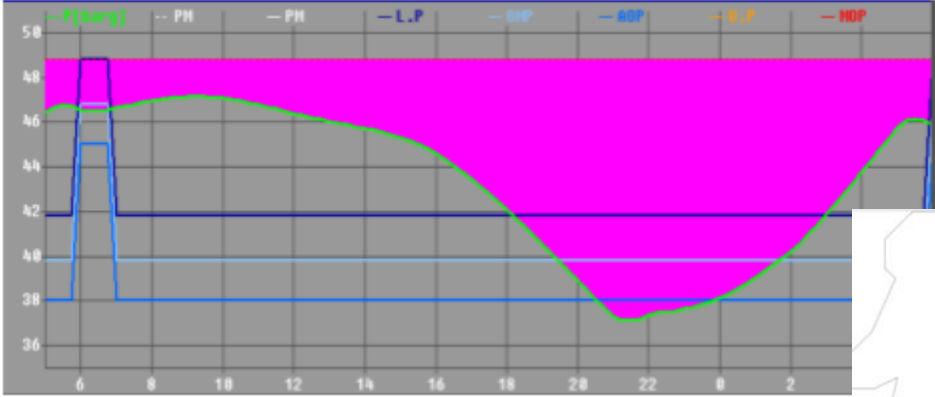
**• bbl company •**



# Creation of the Plan

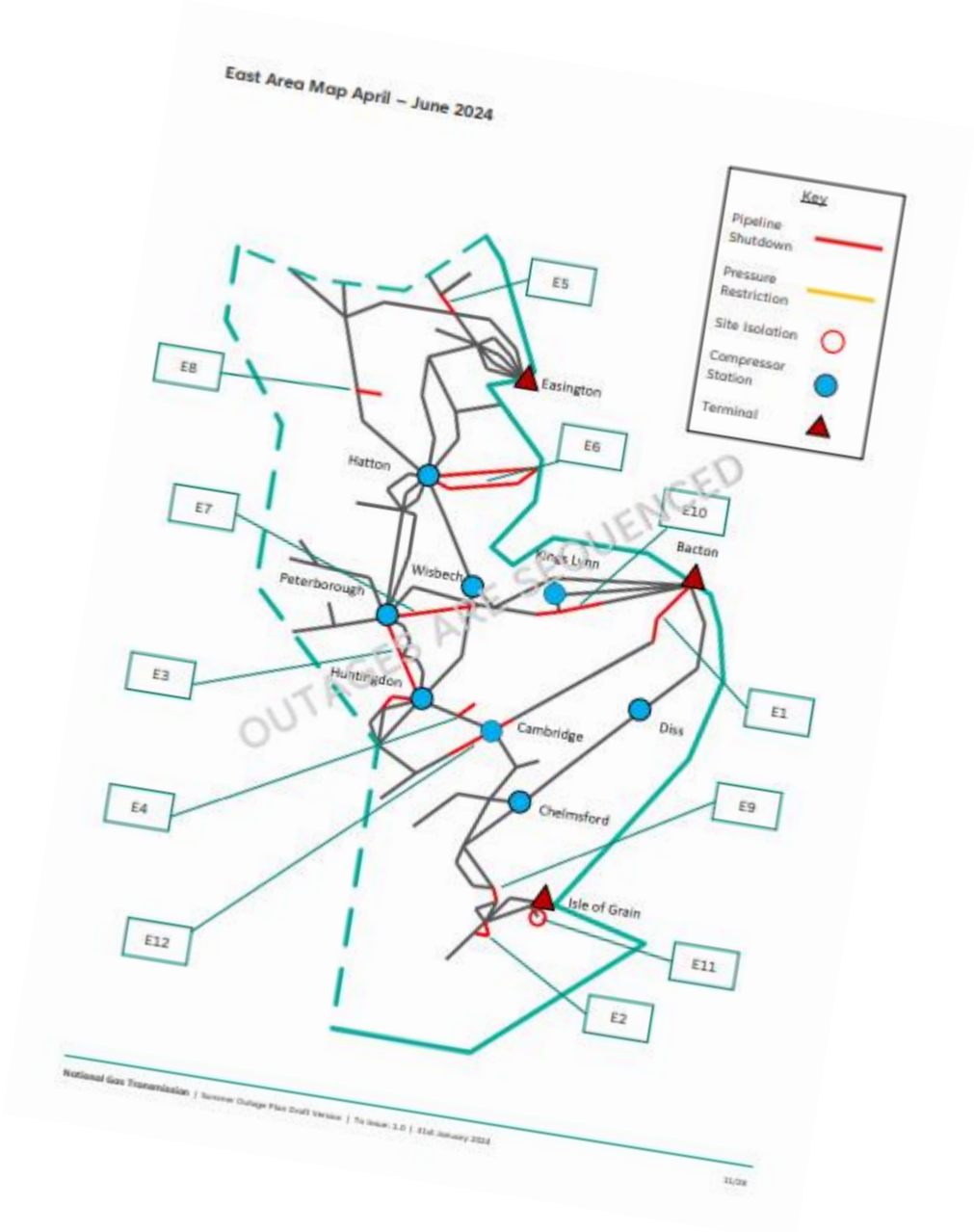
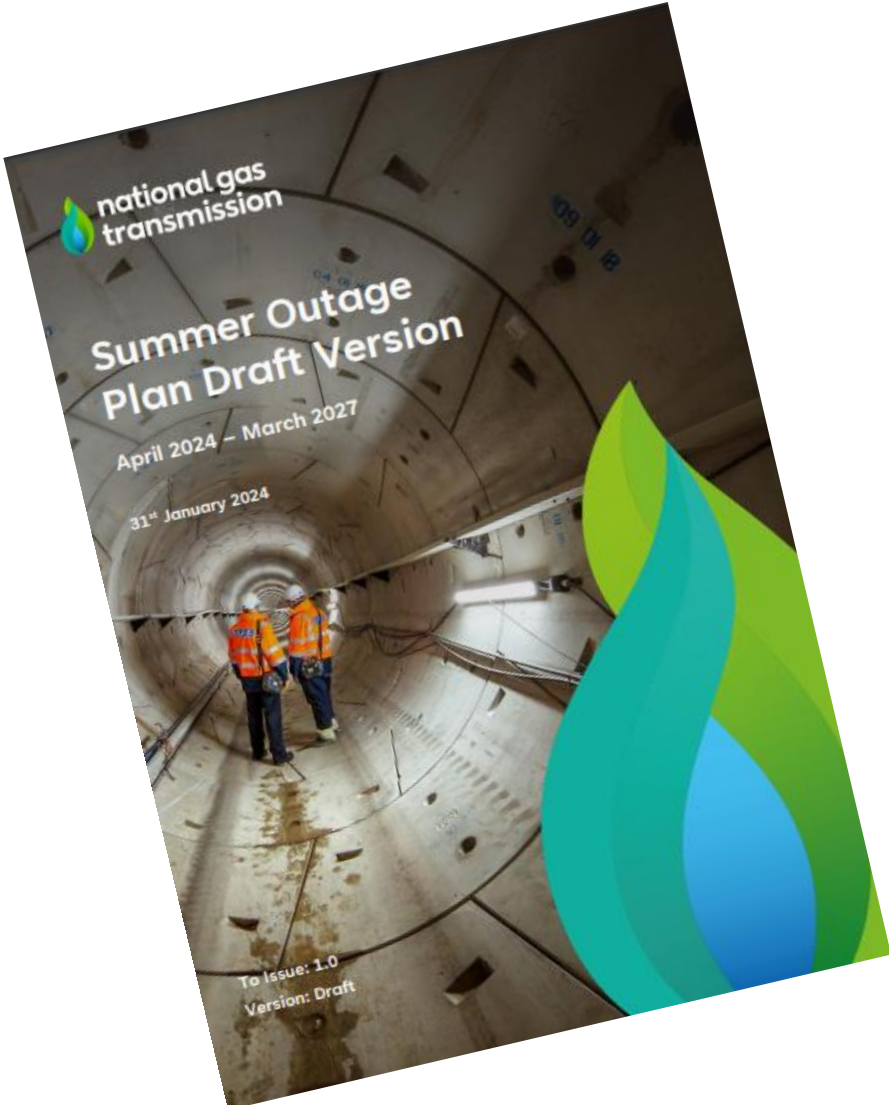
## GANTT CHART

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.





# Publication changes



# East Area

Some customers:



Guess the gas terminal from Google Maps



European export

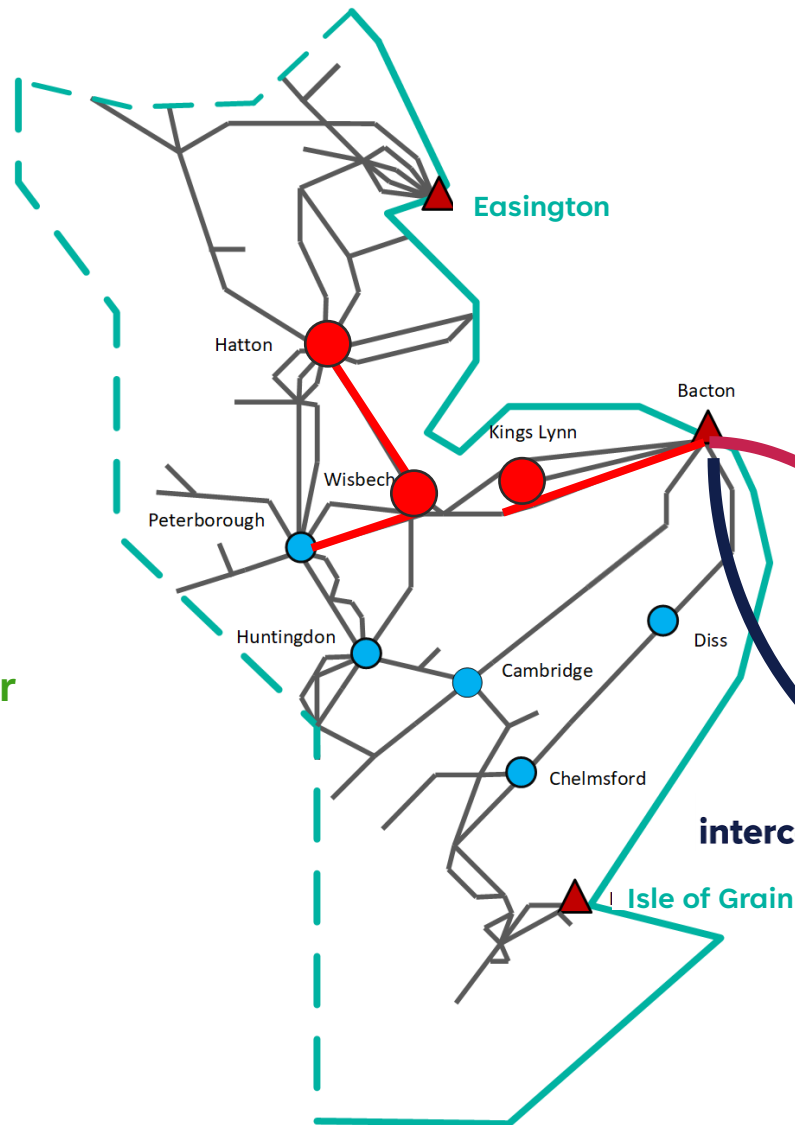
Isle of Grain entry capability

Southeast demand

Delivering year-round outages

# European export

- Commissioning of brand-new compressor unit at Hatton
- Asset health investment at Kings Lynn compressor
- Asset health investment at 11 Above-Ground Installations
- Can meet our baseline exit obligation throughout the year
- Initial network analysis suggest we do not have the network capability to release non-obligated gas.



How have we reduced the impact of these outages?

- Taking winter outages
- Aligning to interconnector outages
- Streamlining the scope of works at Kings Lynn
- Alternative ways of operating the NTS

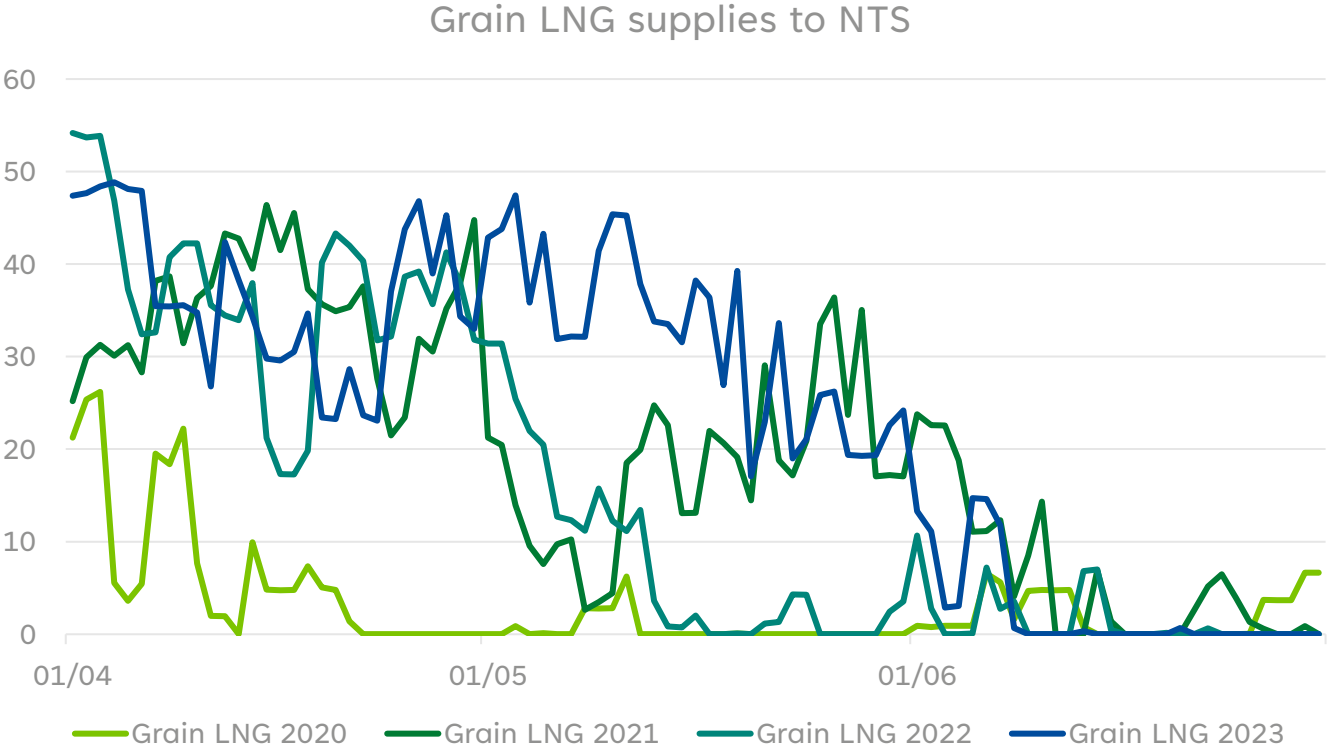
• bbl company •

interconnector



# Isle of Grain Entry 2023

- Higher than expected supply from Grain LNG in May 2023 due to the expectation that flow patterns would be similar to 2022.
- Pipeline isolation initially planned for May 2023 that would restrict Isle of Grain entry capability.
- We now have now updated our planning principles to remove this risk in future.



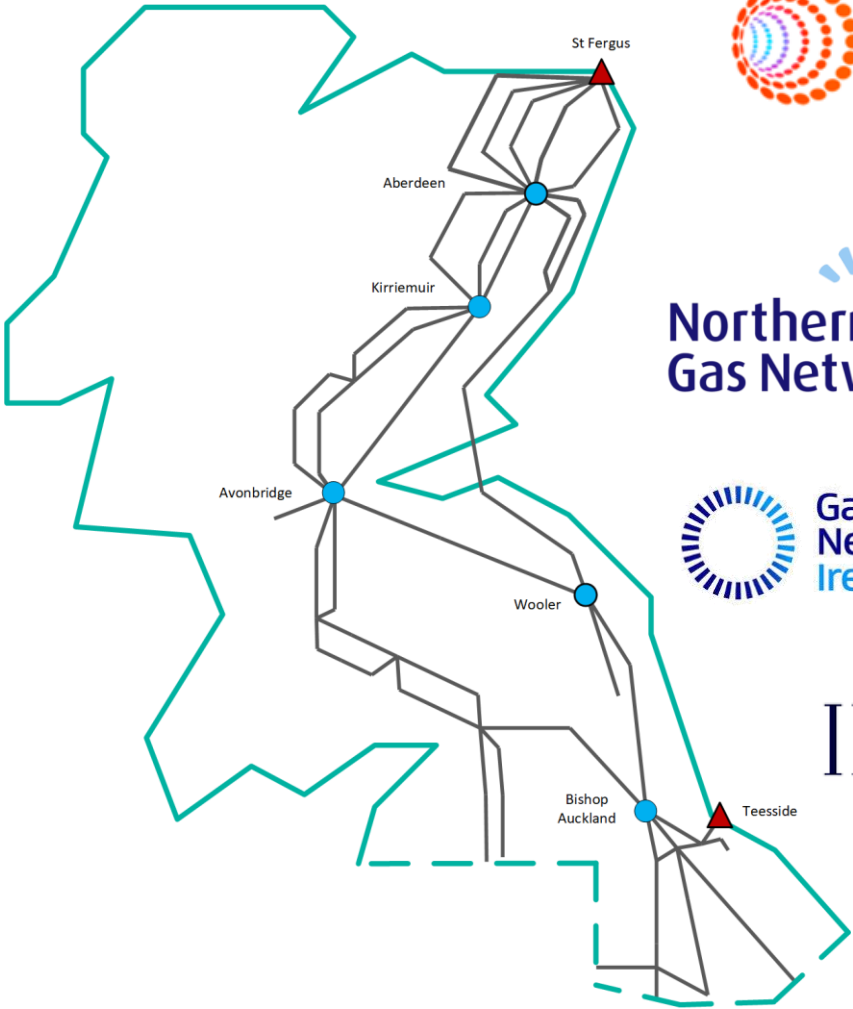
# Year-round outages

- Mobile compression units that depressurise a section of pipeline that requires a complete vent and purge.
- We extensively assess the risk of having any pipeline on outage throughout the winter months, testing the most extreme demand scenarios.
- We have identified areas of the network that are acceptable to have on outage throughout winter. Meaning we can deliver more work year-round.



Recompression outages	
2023	2024
8	11

# Scotland and North Area



Air Liquide

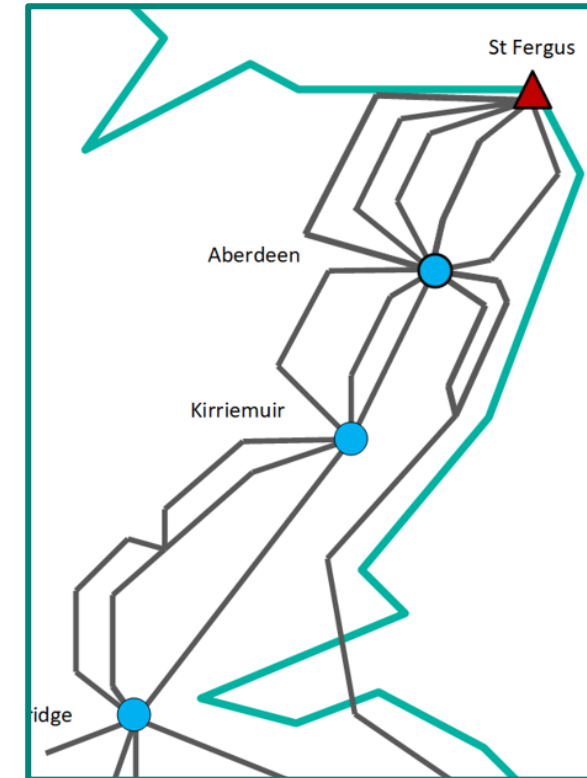
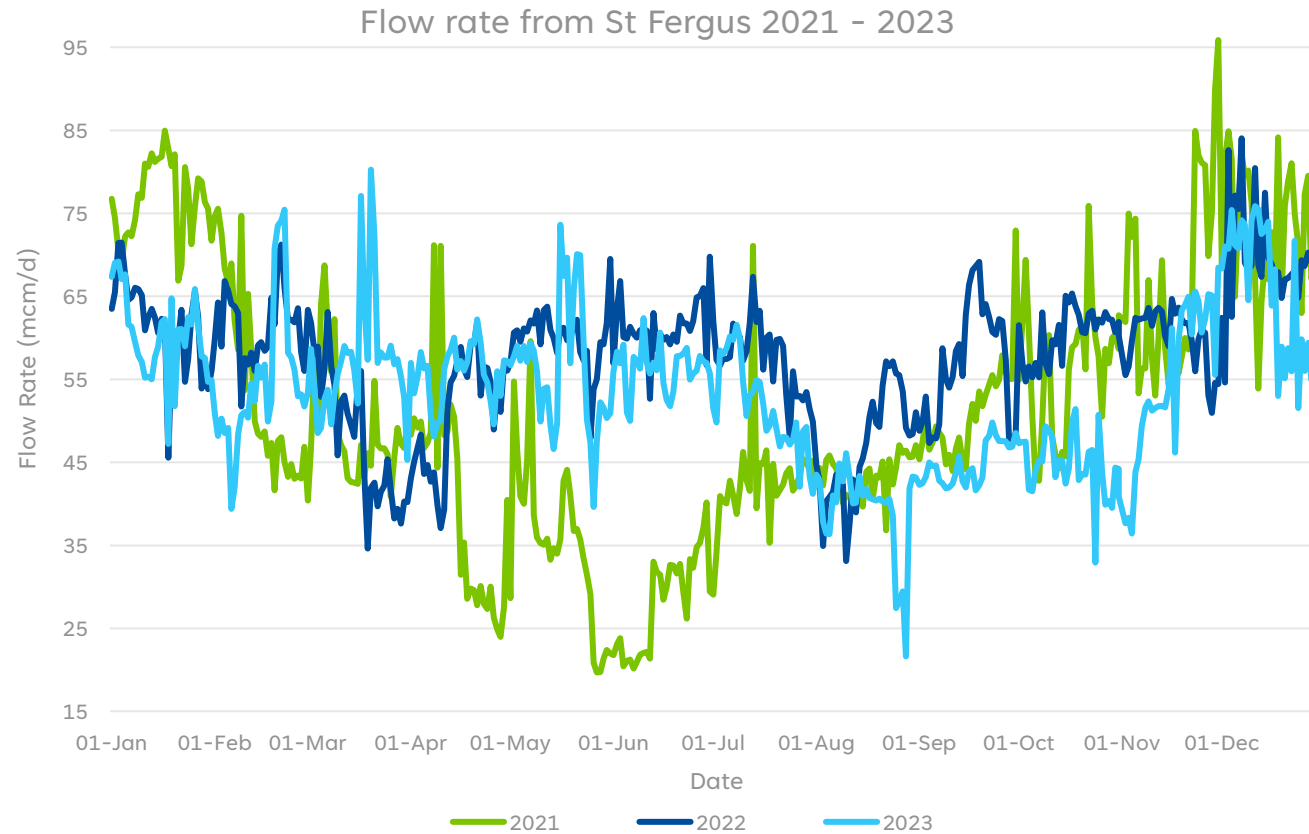


Maintaining St Fergus entry capability

Maintaining Teesside entry capability

Outages outside summer

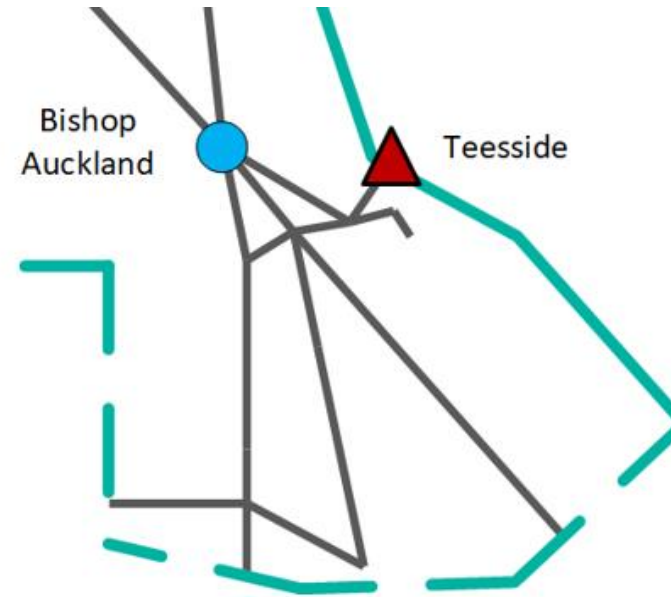
# Maintaining St Fergus entry capability



- The NTS in Scotland was designed to support higher gas flows than we see today
- Parallel feeders throughout the region provide increased resilience
- Sections between compressor stations can be treated independently, multiple feeder outages to take advantage of low flow periods in summer

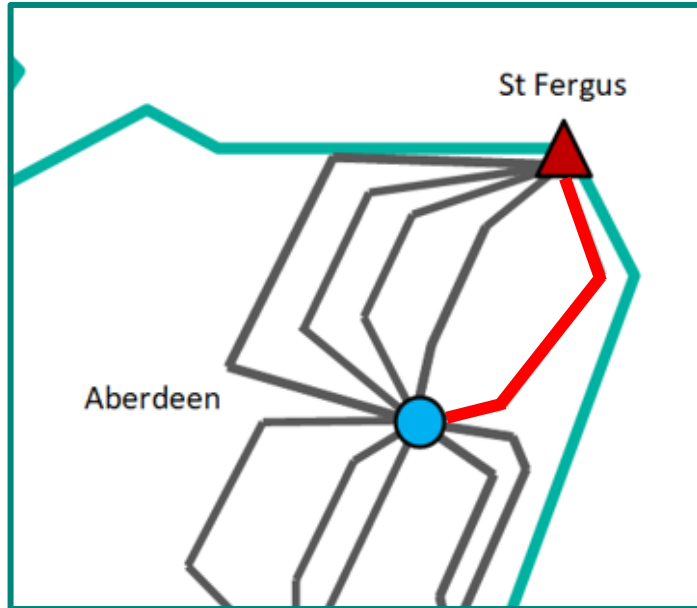
# Maintaining Teesside entry capability

- The two sub-terminals have been operational since the early 1990s and supply ~10% of the UK's gas
- Less resilience compared with pipelines from St Fergus
- Greater emphasis on aligning potentially impacting outages with maintenance at the terminals
- Outage information from customers helps identify periods of lower entry flows, i.e. for In-line Inspections (ILIs)
- Compression is also factored in – Bishop Auckland compressor station is kept available while Hatton (further south) is offline





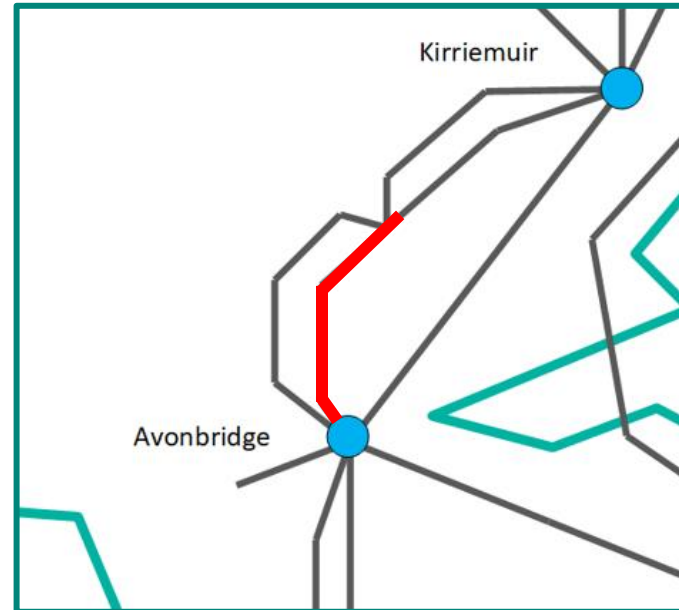
# Outages outside of summer



## Feeder 12 St Fergus to Aberdeen

December 2023 – May 2024

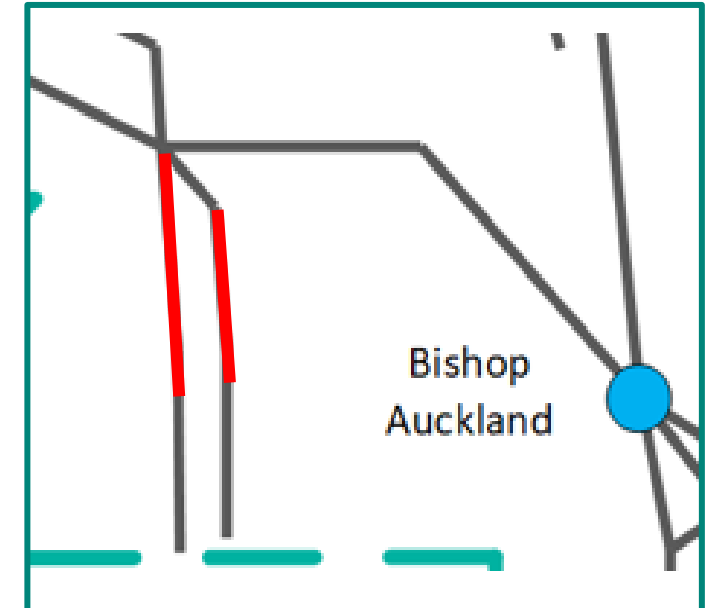
Recompression for high-priority maintenance



## Feeder 11 Pitcairngreen to Bathgate

February – July 2024

Recompression for asset replacement works

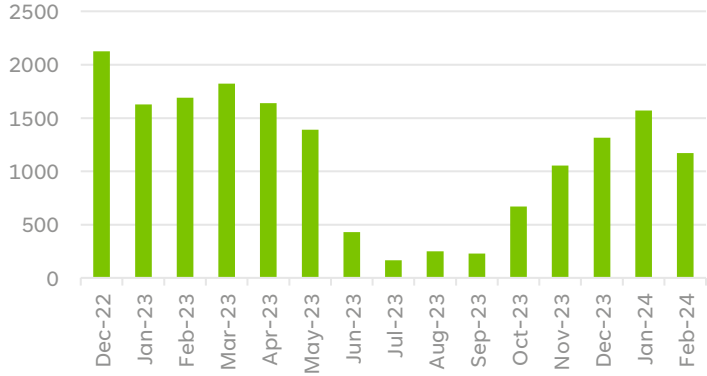


## Feeder 11/15 A66 Diversions

September – December 2024

Phased recompression jobs for customer pipeline diversions

# West Area

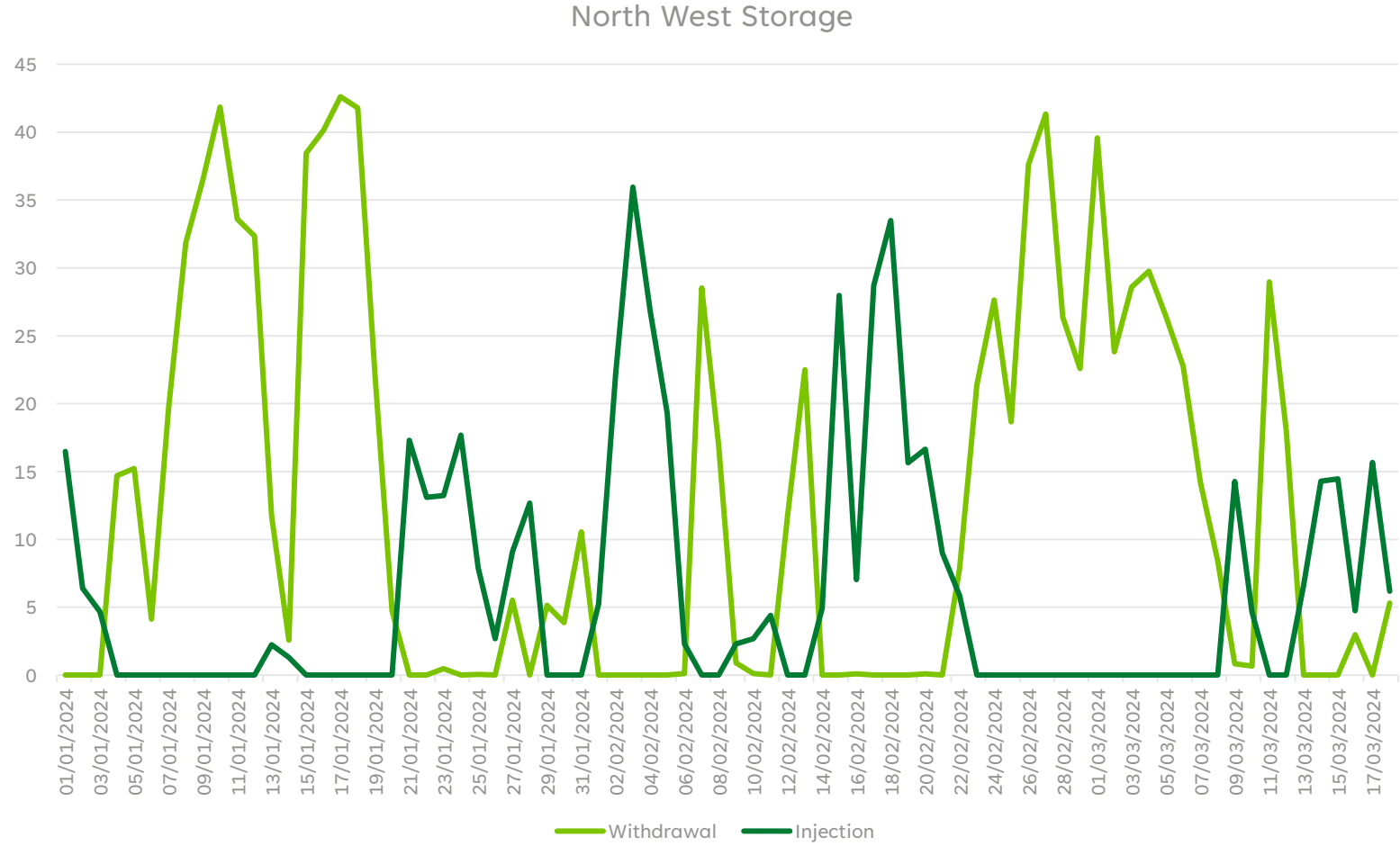


South West Demand

Maintain NW Storage capabilities

Maintaining entry capability at Milford Haven

# North West Storage



# Milford Haven



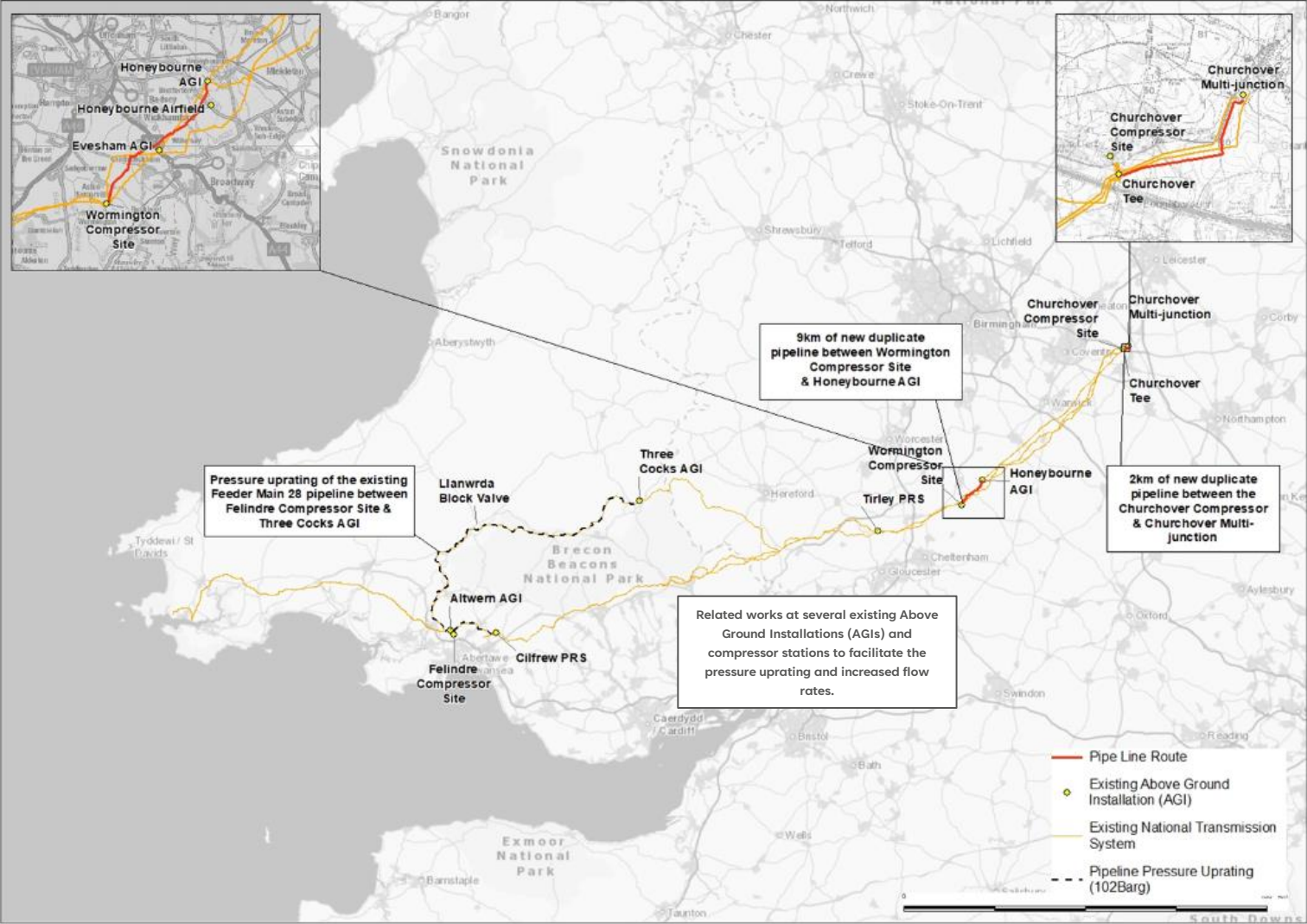
# Maintenance

## Western Gas Network Project

Jordan Wright

Senior Project Manager

# WGN Project: Scope

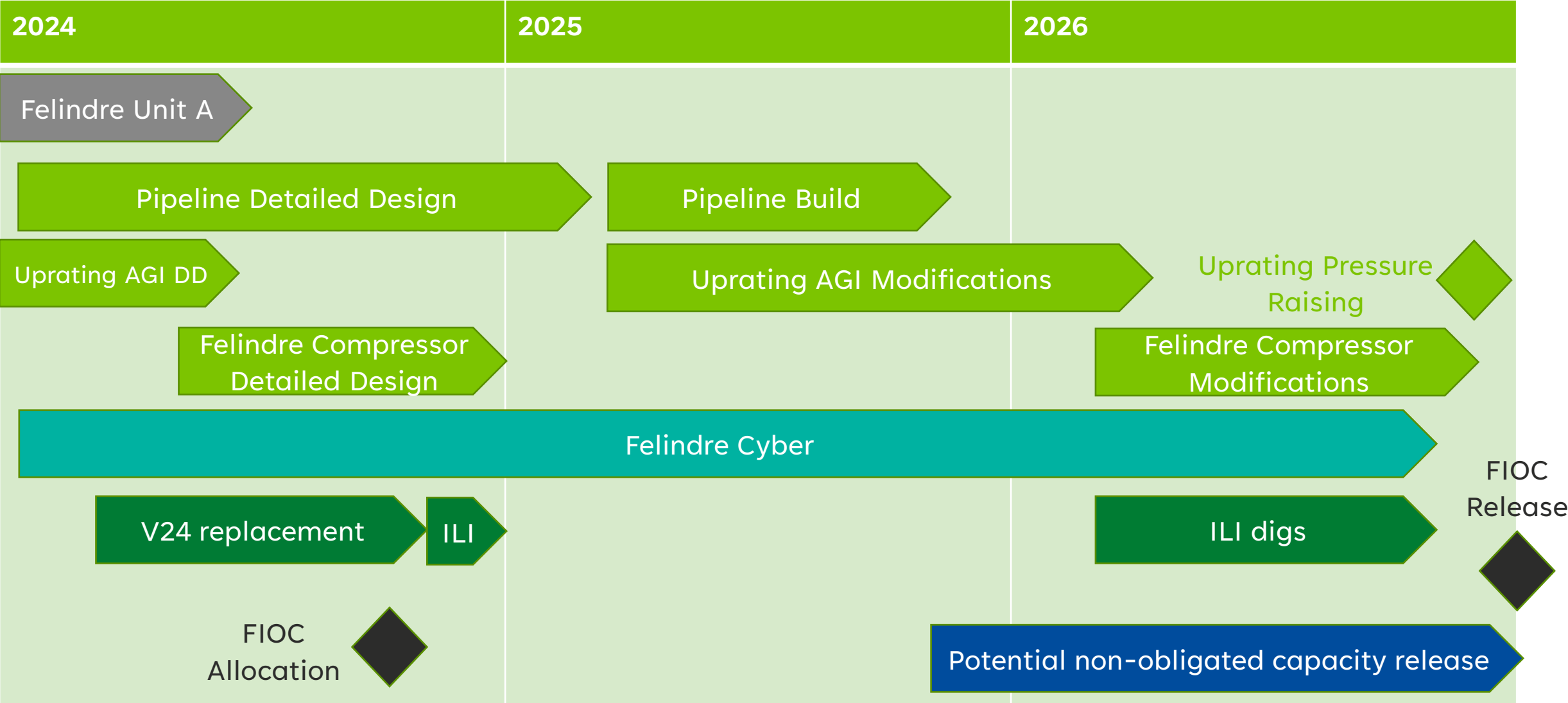


Interactive Maps:

[Wormington-Honeybourne](#)

[Churchover](#)

# WGN Project: Summary Programme



# WGN Project: Q&A

Capacity and  
constraint  
risk

Capital cost

Similar  
projects



# General Updates

Nicola Lond

Operational Liaison and Business Delivery Manager



# Gemini Sustain +

- Hosted **Sustain Plus Focus Group** on Monday 18<sup>th</sup> March - shared the latest programme updates, information on Market Trials and Connectivity, along with providing a system demo of the Create Bids functionality and 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 ⓘ

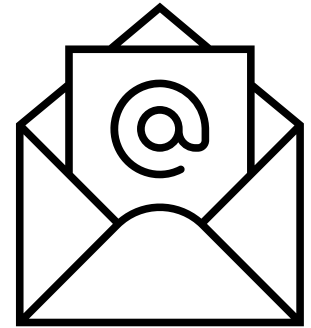
Gemini Sustain plus is hosting technical surgeries during April to support the gas industry for the connectivity & onboarding phases

Reserve a spot

The image shows a screenshot of an Eventbrite event page. At the top, there is a teal and black abstract graphic. Below it, the event date is listed as 'Tuesday, April 2'. The event title is 'Gemini Sustain Plus - Technical Surgeries'. There is a ticket selection box showing '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 paragraph of text describes the event: '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'.

# Electronic Data Submission System

- Moving from @nationalgrid email to @nationalgas email addresses for our box accounts.
- This will have an impact on the electronic notifications sent to our control room.
- There will be communications coming shortly to all operators to explain more on this.
- We will work closely with our customers to ensure minimal impact



# Power Stations & Industrial Maintenance

National Gas is now supplying maintenance services to UK natural gas power stations and industrial consumers of gas.

We offer nationwide coverage for all planned and reactive maintenance activities, which include the following (but are not limited to):

- ❖ Valve / actuator maintenance
- ❖ Pipeline surveys (line-walk / aerial / vantage point etc.)
- ❖ Visual / routine and functional checks (AGIs)
- ❖ Pipeline protection
- ❖ PIG operations
- ❖ CP functional checks & CIPS
- ❖ MOP declaration & affirmation reports (TD/1)
- ❖ Instrument & metering validation
- ❖ Gas quality equipment checks
- ❖ PSSR examinations

Additionally, National Gas is able to provide a full **Turnkey Solution** and same day response for all emergency work through our Centralised Emergency Materials & Equipment (CEME) service that includes:

- ❖ Flow-stopping
- ❖ Pipeline isolations and diversions
- ❖ Civil works
- ❖ ILI digs and more

Our in-house team of skilled technicians ensure Power Stations, CHP operators and other industrial consumers of gas operate safely, efficiently and offer a dependable source of energy to the national grid when the country needs it most.

# 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		
✓	✓	✓		↑							

The May event is Online only

Registration Open for **May** Operational Forum:  
<https://ngt.ticketbud.com/gas-operational-forum-may-online->

# Welcome back Rachel!



- **Rachel Hinsley** returns from Maternity leave on **2<sup>nd</sup> April** to her role as Operational Liaison & Business Delivery Manager.
- Nicola will be handing the reins back to Rachel during April when her secondment will end.
- Nicola will remain in Gas Operations and move to the Markets team.

# Q&A





**Thank you**



# Information For Reference



# How to contact us

	Operational Liaison Team	Box.OperationalLiaison@nationalgrid.com
Rachel Hinsley (2nd April return)	Operational Liaison Team Manager	<a href="mailto:Rachel.Hinsley@nationalgas.com">Rachel.Hinsley@nationalgas.com</a> ( <a href="mailto:Nicola.j.lond@nationalgas.com">Nicola.j.lond@nationalgas.com</a> until rachel returns)
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](#)

[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	<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

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/>

