

October Ops Forum

17th October 2024

Starts at 10:02am



Introduction & Agenda

Rachel Hinsley

Operational Liaison & Business Delivery Manager

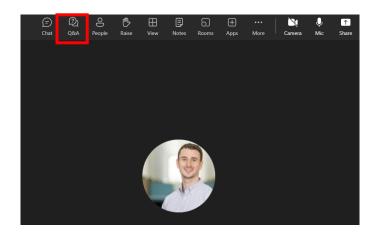


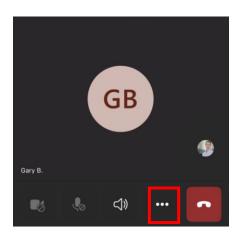


Housekeeping for Forum

- 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

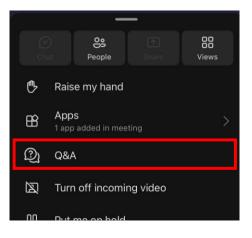








Mobile



Agenda

Welcome and Introduction	Rachel Hinsley – Operational Liaison & Business Delivery Manager	10:02
Operational Updates	Gareth Hocking – Head of Operational Delivery	10:03
Winter Outlook	Chris Thompson – Engagement & Publications Manager Karen Healy – Engagement & Publications Lead	10:13
Ice Update	Guest Speaker: Wouter De Klein – ICE	10:45
National Gas Markets Update	Nicola Lond – Senior Codes Change Lead Kris Jacob – Market Development Analyst	11:05
DESNZ	Guest Speaker : Jamie Sproul – DESNZ	11:25
NESO Gas Market Strategy Team Update	Guest Speaker : Sakhi Choudry – NESO	11:35
General Updates	Rachel Hinsley – Operational Liaison & Business Delivery Manager	11:50
Close	Rachel Hinsley – Operational Liaison & Business Delivery Manager	11:55

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





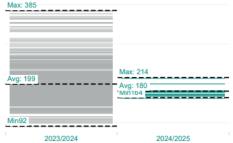
NTS Supply/Demand

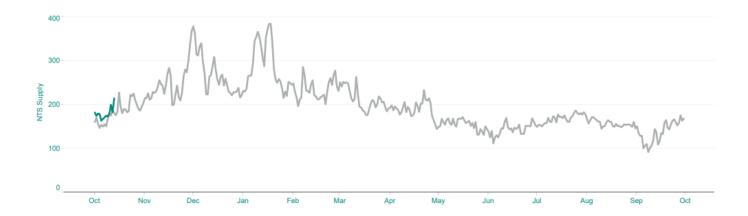




NTS Supply Gas year to date End of day values (mcm) for gas year to date and

equivalent time period in previous gas year





NTS Avg Supply/Demand 2023 vs 2024

199 mcm/d vs 180 mcm/d

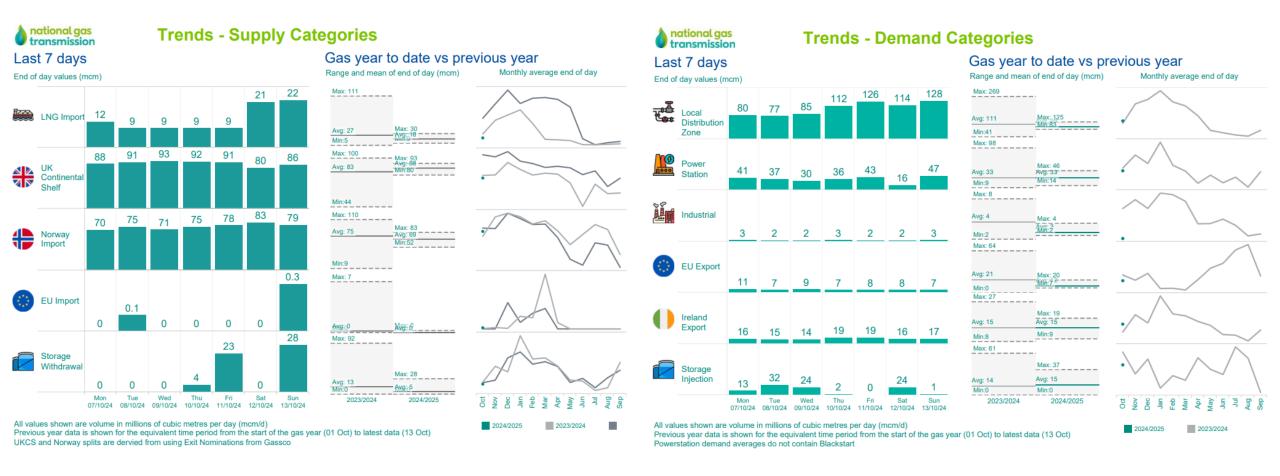
NTS Supply/Demand Summer Average

140.5 mcm/d

Octobers Supply/Demand Average

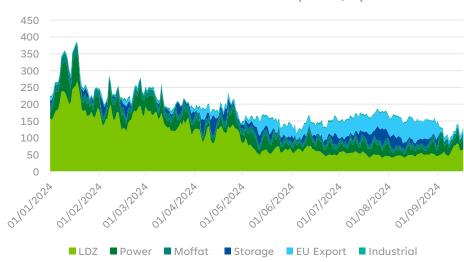
• 179.29 mcm/d

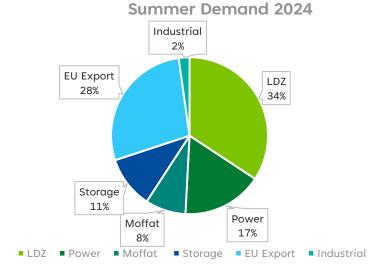
NTS Supply/Demand Breakdown

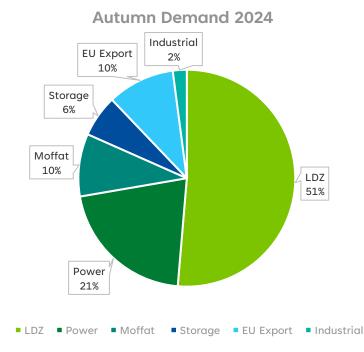


NTS Demands

UK Gas Demand 2024 (mcm/d)







LDZ

Increase demand as UK temperatures reduce

Power

 Small increase on summer demand. Gas is providing 25% of power generation over the start of October, as days shorten and solar drops off

Moffat

Small increase in demand linked to reduce temperatures
 Storage

Stock levels above 5 year average (91%) at 94% full

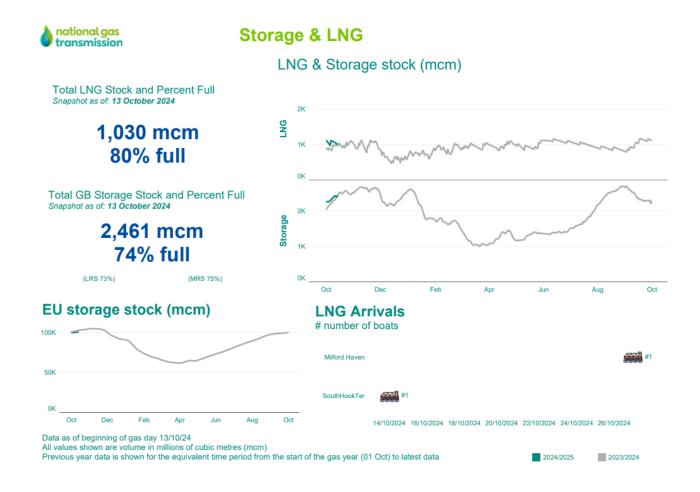
EU Export

 Reduction in EU Export due to low price spreads Industrial

Stable usage when compared to summer

The last GB coal power station, Ratcliffe, ceased operations on 1st October 8

GB & European Storage



Storage

- GB Storage at 74% full
- EU Storage at 94% full

LNG

2023 - 10 cargoes

2024 – 3 cargoes expected/delivered

Europe LNG holding a premium over GB and Asia

LNG Risk

Hurricane season across the Atlantic basin could be affecting cargoes as US National Hurricane Centre has currently issued warnings on 3 hurricanes Milton, Leslie and Kirk

Winter Outlook

Chris Thompson
Engagement & Publications Manager
Karen Healy
Engagement & Publications Lead





Poll Q1

Have you read the winter outlook published last week?

Poll Q2

Do you find the Winter Outlook useful?

Key messages

1.

We have sufficient capability to meet peak (1-in-20) demand, with a positive supply margin under both intact and N-1 network conditions.

2

We forecast that GB demand (excluding exports to Europe) for winter to be comparable to last year with the increase in residential demand being offset by reduced demand for power.

3.

Total NTS demand is forecast to reduce, as we expect reduced levels of exports to Europe when compared to the previous winter given that EU will enter winter with extremely high storage levels and now have increased LNG import infrastructure in place.

4.

We have illustrated how the NTS could be balanced under a range of credible demand profiles. UKCS & Norway provide baseload supplies with the level of LNG required driven by the overall level of demand. In cold winter scenarios, GB will likely also require imports from the EU.

5.

Disruptions to other markets could impact the GB market, with a particular focus on the second half of winter dependent on the extent of EU storage usage. Overall, whilst we have more confidence that the market will perform as expected, we shouldn't discount the risk of events occurring, either in isolation or in combination, to put the EU and therefore by extension GB, under stress. 6.

We have the necessary physical, commercial and market based tools to manage a supply and demand imbalance, including those related to a Network Gas Supply Emergency (NGSE), should it be necessary.





We expect the coming winter to look a lot like the previous winter, and so our key messages are consistent with those in last year's Winter Outlook.

Peak day supply margins

Peak demand: 474 mcm/d

Peak demand is lower than peak supply, meaning a positive supply margin is expected for the coming winter period.

A positive supply margin offers flexibility in how supply can meet demand, e.g. if storage supply is low, LNG supply could increase to meet demand.

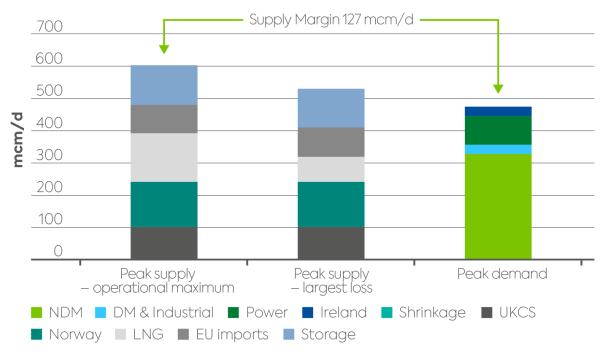
Our network has sufficient physical capability to accept gas from each supply source in response to how the market chooses to balance demand and supply.



We have a positive supply margin for the coming winter

Peak supply: 601 mcm/d 17

Peak day supply margin for winter 2024/25



Non Daily Metered (NDM) demand

A slight increase in demand is forecast this year (2%).

Household energy prices expected to be slightly lower than last winter. We would expect some consumers increase their energy usage.

Despite the fall in price, household energy prices are still high by historical standards so we would expect many of the energy saving techniques to continue limiting the increase in demand.

Weather corrected NDM winter demand – actuals and forecast



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We expect a small increase in NDM for the coming winter.

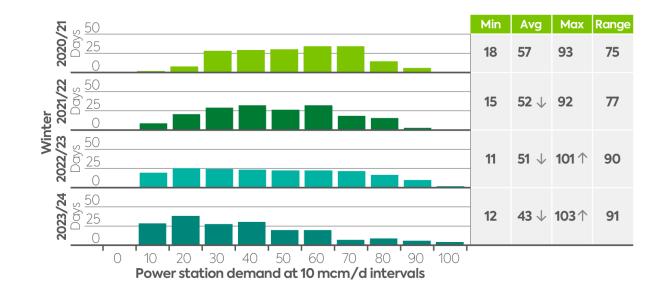
Gas demand for power

A reduction in total demand for power is forecast for the coming winter as renewable generation continues to increase.

In contrast, the likelihood of larger intra-day swings also increases, with gas providing a critical role in balancing the electricity system.

We do expect to see high maximum daily demands, as was the case last winter, with gas-fired power stations coming on-line to help balance the electricity system when the wind doesn't blow.

Power station daily demand at 10 mcm intervals





Total gas demand for power is forecast to reduce this winter. The maximum daily demands are expected to remain high.

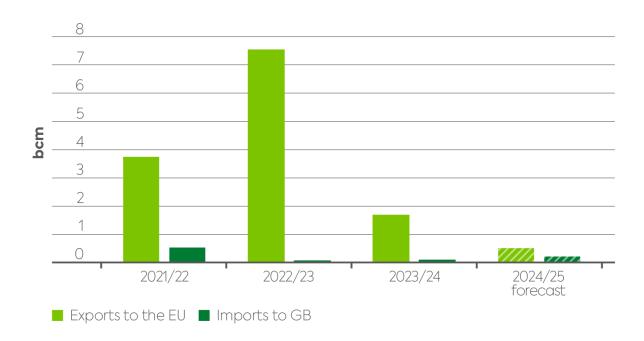
Exports to continental Europe

Exports to continental Europe are forecast to reduce further this winter.

Continental Europe have increased imports and bolstered its LNG regasification capacity over the last few winters.

Seasonal NBP-TTF price spreads also indicate there are no strong indicators for exports.

Total winter exports – actuals and forecast



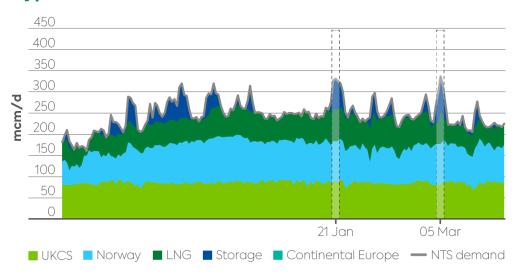


Winter Supply & Demand Scenarios: Cold & Typical

Modelling Approach:

- We modelled average (2019/20) and cold (2010/11) winters
- UKCS & Norway supplies provide most baseload supply
- LNG, Storage & imports from continental Europe provide most of the flexible supply

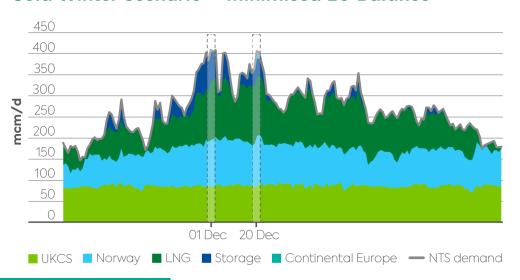
Typical Winter Scenario – Minimised EU Balance



Key observations:

- In the average winter high storage deliverability is maintained across the winter, no requirement for EU imports
- In the cold winter the significant cold snap during December sees storage stocks depleted with a moderate requirement for EU imports.

Cold Winter Scenario – Minimised EU Balance





Our modelling shows there is significant flexibility in how supplies could meet various demand scenarios

Summary

We expect the coming winter to look a lot like the previous winter, and so our key messages are consistent with those in last year's Winter Outlook.

We expect a small increase in NDM for the coming winter.

Total gas demand for power is forecast to reduce this winter. The maximum daily demands are expected to remain high.

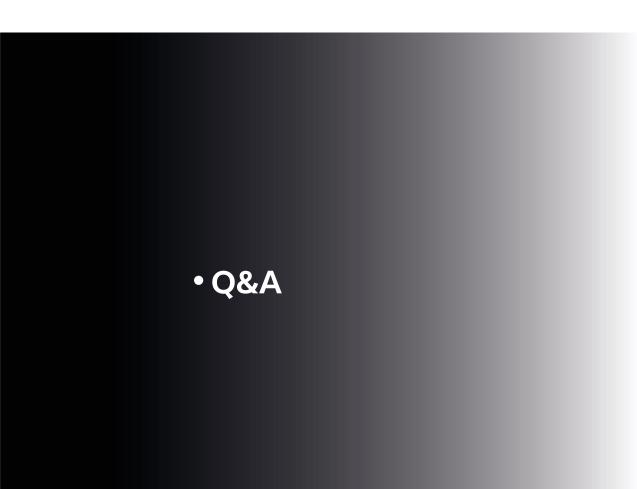
Exports to continental Europe are forecast to reduce

We have a positive supply margin for the coming winter

Our modelling shows there is significant flexibility in how suppl could meet various demand scenarios









Poll Q3

Which elements of the Winter Outlook do you find most useful?



OCM Market Update National Gas Operational Forum

Wouter de Klein Senior Director, Utility Markets

17 October 2024





Thank you!

wouter.deklein@ice.com sales-utilitymarkets@ice.com

+31 20 305 51 69

UK OCM Gas Spot | ICE

Wouter has asked not to share his slides live. Please contact him directly for his market overview.



Markets Update

Nicola Lond
Senior Codes Change Lead
Kris Jacob
Market Development Analyst







Market Change Our Role:



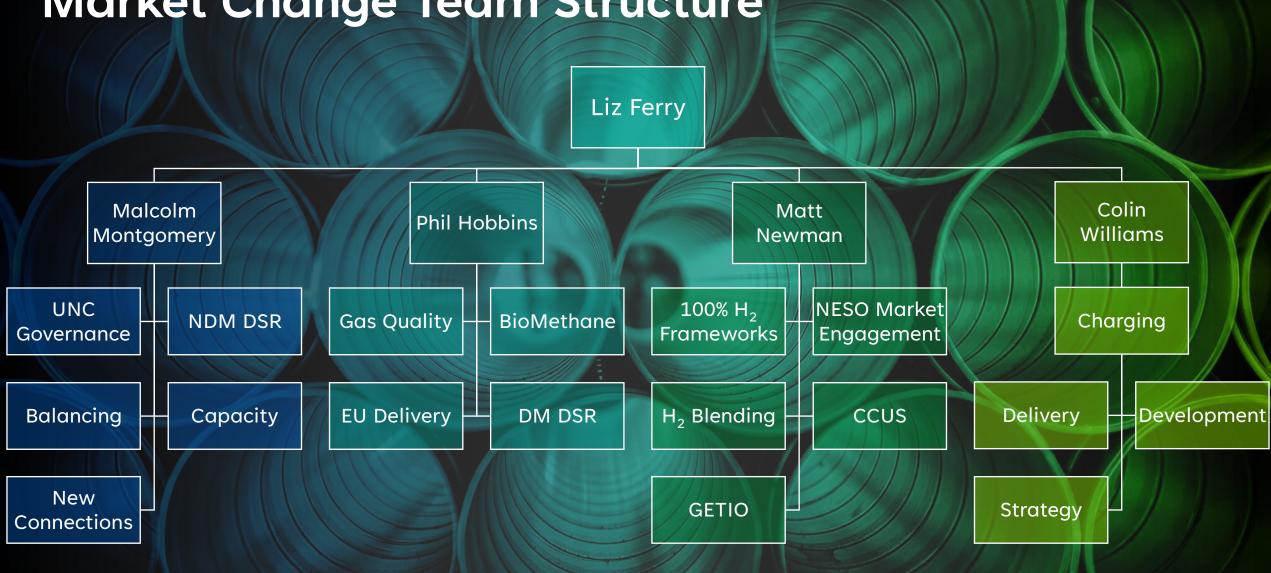
- ✓ Working with Stakeholders
- ✓ Change Management for commercial frameworks
- ✓ Enabling transition for net zero
- ✓ Developing Future Frameworks
- ✓ Charging regimes relevant to markets operate in
- ✓ Set Charges to recover revenue
- ✓ Influencing direction of the market
- ✓ Delivering efficient commercial solutions





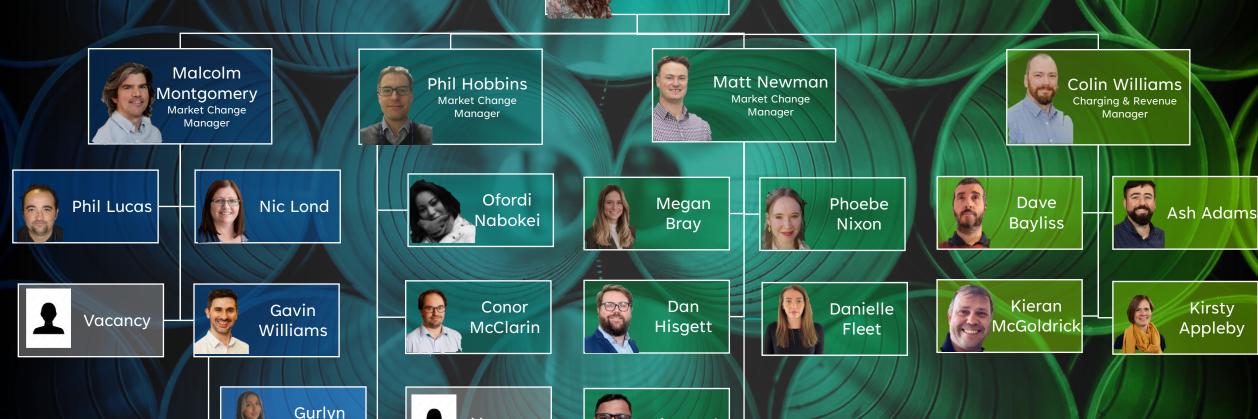


Market Change Team Structure



Market Change Team Structure





Kris Jacob

Vacancy

Sandhu

Winter Update: Daily Metered Demand Side Response (DM DSR) Gas Demand Side A

- DSR is a pre-emergency commercial tool that incentivises daily metered (DM) gas customers to reduce their consumption voluntarily during times of system stress, in return for compensation payments.
- Shippers and consumers can participate
- Shipper DSR: contractual terms in UNC
- Consumer direct DSR: standard terms and conditions apply
- 3 products: D-5, D-1, within day
- Option and exercise arrangement up to 3 years out
- NGT may call DSR any day between 01 November and 30 April
- Further information online:

Demand Side Response | National Gas

Gas Demand Side Response (DSR)

OUTCOME REPORT

Issued: 4th October 2024



Winter 24/25 tender results

Year	Number of offers received	00 0	Weighted Average Price of offers received(p/kWh)
2023-24	16	12,752,026	0.60p
2024-25,2025-26,2026-27	25	19,871,489	0.88p

Year	Number of Offers accepted	Volumes Accepted (kWh)	Accepted Offers Total (£)
2023-24	6	6,396,722	£6,638,417.38
2024-25	6	4,290,638	£3,666,242.50

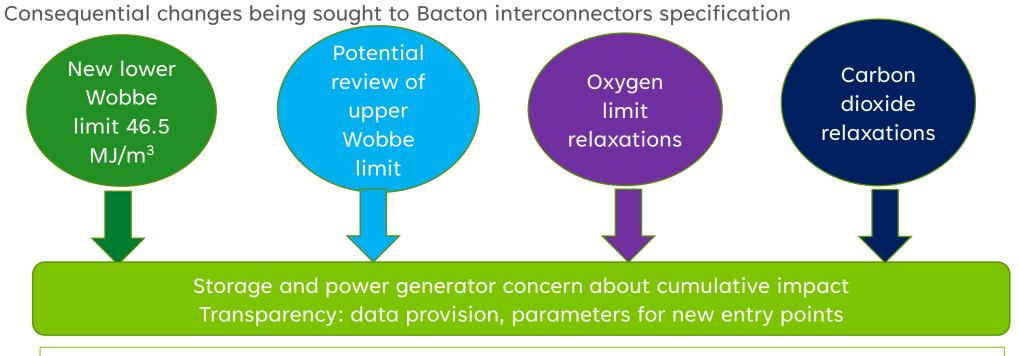
- <u>UNC Mod 0866</u> implemented: report includes more explanation on our decisions
- We received some offers for future years (winters 2025/26 and 2026/27). We decided not to accept these offers due to the associated relatively high option prices

DSR Outcome Report 2024.pdf (nationalgas.com)

Gas Quality Update

HSE published its <u>Conclusions of the GS(M)R Review</u> in March 2023

- ✓ Removal of Incomplete Combustion Factor and Soot Index & replacement with Relative Density limit of 0.7 implemented April 2023 at all NTS Entry points
- Reduction in the **lower limit for Wobbe Index** from 47.2 MJ/m³ to 46.5 MJ/m³ <u>from April 2025</u> Implementation sought by terminal operators at Bacton Perenco, Barrow, Grain LNG, Teesside Px and St Fergus NSMP via UNC Modification <u>0870</u>



Links to current gas quality related UNC Modifications: 0870, 0880, 0882, 0885, 0898

^{*} Gas Safety (Management) Regulations 1996 & The Gas Safety (Management) (Amendment) Regulations 2023

CAM NC Consultation

- The CAM NC (Capacity Allocation Mechanism Network Code) is the EU regulation that harmonises how network users can use the gas transmission network to enter or exit a market at an IP, and how these capacity rights can be obtained
- 26th September ACER published its final "Public consultation on amending the network code on capacity allocation mechanisms in gas transmission systems"
- The consultation <u>here</u> on the CAM NC is open from 26th September 25th October
 2024
- National Gas Transmission will respond to the consultation as the GB TSO, evaluating how the proposed amendments will affect GB and the changes that would be required to implement any of the proposed amendments.

• Next Steps:

Dec 24:ACER present proposals to EU

Commission

Jan 25: EU commission comitology begins (~6 months)

Implementation timeline unknown (~12-18 months)

Capacity, Connections & Governance

Capacity

- Capacity methodology statements review 24/25 – Clarifications- Informal consultation closed. Formal Consultation November.
- Phase 2 25/26 PARCA review
- Rough Storage Capacity for Winter 24/25- <u>UNC Mod 0878</u> implemented
- Exit Capacity holdings & Offtake rights - <u>UNC Mod 0860</u> – Ofgem decision
- Enhanced Pressure Service at BBL extension to 31 December 25. -UNC Mod 0891 – Ofgem decision

Connections

- Green Gas Biomethane
 Connections to NTS
- Transparency for new connections <u>UNC Mod 0882</u> – at workgroup
- iGT connections to NTS <u>UNC</u>
 <u>Mod 0887</u> at workgroup
- DN flow onto NTS to facilitate
 biomethane connections to GDNs
 UNC Mod 0894 at workgroup

Governance

- NESO changes made to UNC for Day 1
- Transitional Rules updates
- Potential Gas Quality specific UNC workgroup to be established

Charging

Transmission Services Charging Reforms

- Discussions taking place in <u>NTSCMF</u> – issues include Transmission Service Charging and potential change to Entry/Exit split
- All discussions and analysis facilitated by NGT available on the <u>NTSCMF pages</u>
- November NTSCMF NGT to present single option to enable detailed discussion

St Fergus Compression

- There is a UM for emissionsrelated investment in compression at St. Fergus
- Should there be a targeted charge for this investment? If so, at what level should this be targeted?
- NGT presented indicative tariff impacts under 4 targeting options at October NTSCMF: Fully socialised across Entry & Exit, Targeted to Entry, Targeted to St. Fergus ASEP, Targeted at NSMP sub-terminal

Capacity & Revenue Reporting

- A reminder that NGT provides
 <u>Capacity & Revenue reporting on</u>
 a monthly basis
- Reports available to view on the <u>NTSCMF pages</u> of the Joint Office website

Future Frameworks

100% Hydrogen Framework

- Currently working with the Hydrogen Delivery Council Markets Frameworks Working Group
- Helping to develop a framework for a nascent 100% hydrogen network

CCS Unbundling Workstream

- Current regulatory framework allows for a single operator of a transport and storage network
- Unbundling introduces a dual operating model – different parts of transport & storage systems are operated by different entities
- Aim to produce requirements of how the current framework may need to change for unbundling

Hydrogen Blending (UNC Request Group 0849r)

- Set to restart in coming months and progress to Phase 2a
- Joint project with NGT & DNs
- 12-month programme of work before Phase 2b
- Exploring options for how a certification scheme could be developed for blended gas and its benefits

Additional Questions?

Name / Email	Project / Topic <u>Market Change National Gas</u>		
Colin.Williams@nationalgas.com box.NTSGasCharges@nationalgas.com	Charging and revenue		
Matthew.newman2@nationalgas.com	H ₂ Blending UNC0849r		
Phoebe.Nixon@nationalgas.com	CCS Unbundling		
<u>Daniel.Hisgett@nationalgas.com</u>	100% Hydrogen Framework		
Conor.Mcclarin@nationalgas.com	Capacity Allocation Mechanism Network Code (CAM)		
Philip.Hobbins@nationalgas.com Ofordi.Nabokei@nationalgas.com	Gas Quality and DM Demand Side Response (DSR)		
Malcolm.Montgomery@nationalgas.com Nicola.j.lond@nationalgas.com Phil.lucas@nationalgas.com Gavin.williams@nationalgas.com	Capacity, Connections & Governance		

DESNZ

Jamie Sproul

Department for Energy Security and Net Zero







The National Energy System Operator

The UK's 2023 Energy Act set the legislative framework for an independent system planner and operator to be set up to help accelerate Great Britain's energy transition, leading to the establishment of the National Energy System Operator (NESO).



Our Primary Duties

NESO will promote the following three objectives:



Net Zero

Enabling the Government to deliver on its legally binding emissions targets.



Efficiency & Economy Promoting efficient, co-ordinated and economical

systems for electricity and gas.



Security of Supply Ensuring security of supply for current and future customers of electricity and gases.

Our Secondary Duties

NESO will also have regard to:



Facilitating Competition
Creating and maintaining
competitive energy
markets and networks.



Consumer Impacts
Understanding what
changes mean for
consumers.



Whole System Impacts Understanding linkages across systems.



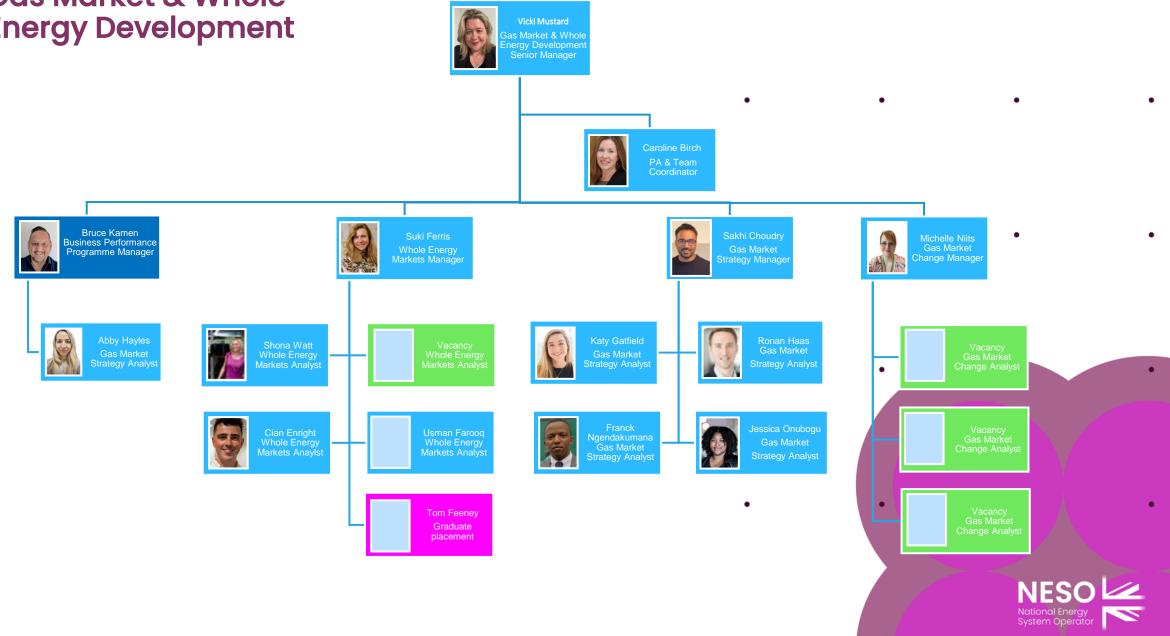
Facilitating Innovation Creating an environment that enables others to help solve energy challenges.



NESO – Gas Market Strategy Team Update

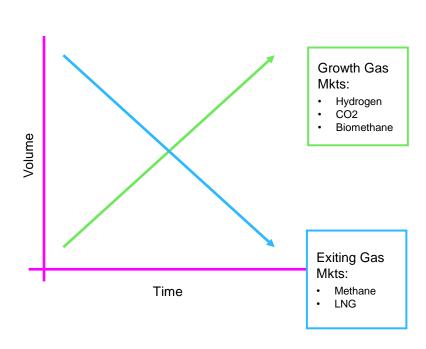


Gas Market & Whole Energy Development



Setting the Scene – Our Approach





Market dimensions

Market fundamentals - Legislation/ Policy

Structuring of the energy market across vectors, value chains and market participants

Eg, Central planning, network regulation, market regulation - new ways of organising markets

Investment policy - Legislation/ Policy

Market interventions employed to achieve specific policy objectives

Eg, Decarbonisation investment policy

Operational market design - Codes

Multi-vector market design elements that enable the stable and reliable day-to-day operations of vectors

Eg, Locational & temporal granularity

Cost allocation - Policy/ Codes

Allocation mechanisms of various costs

Eg, Policy cost allocation, network cost allocation

Market Design

Legislation Policy Codes Contracts



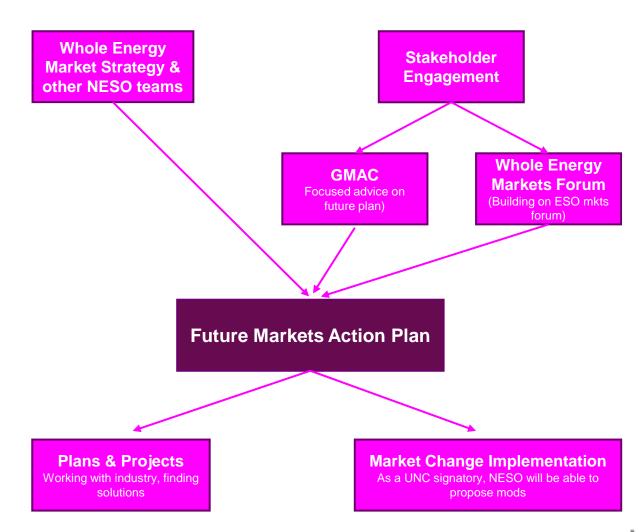
We are building a Gas Market Strategy capability to meet our new licence requirements.

We will establish the **Gas Markets Advisory Council** (GMAC), an advisory body acting as a focal point for industry, decision makers, stakeholders and academics to discuss and explore the potential gas market changes needed to move through the energy transition towards a net zero future. This will look across molecules (methane, biomethane, hydrogen and carbon), consistent with our whole energy market strategy. Emerging findings will be brought to a broader forum to engage with a wide range of gas stakeholders.

This engagement will inform a **Future Markets Plan** which will set a direction of travel and identify further work to find solutions to the challenges identified. Ultimately, we will drive the outcomes forward to implementation, through a combination of influencing policy and regulatory decisions and directly proposing code modifications.

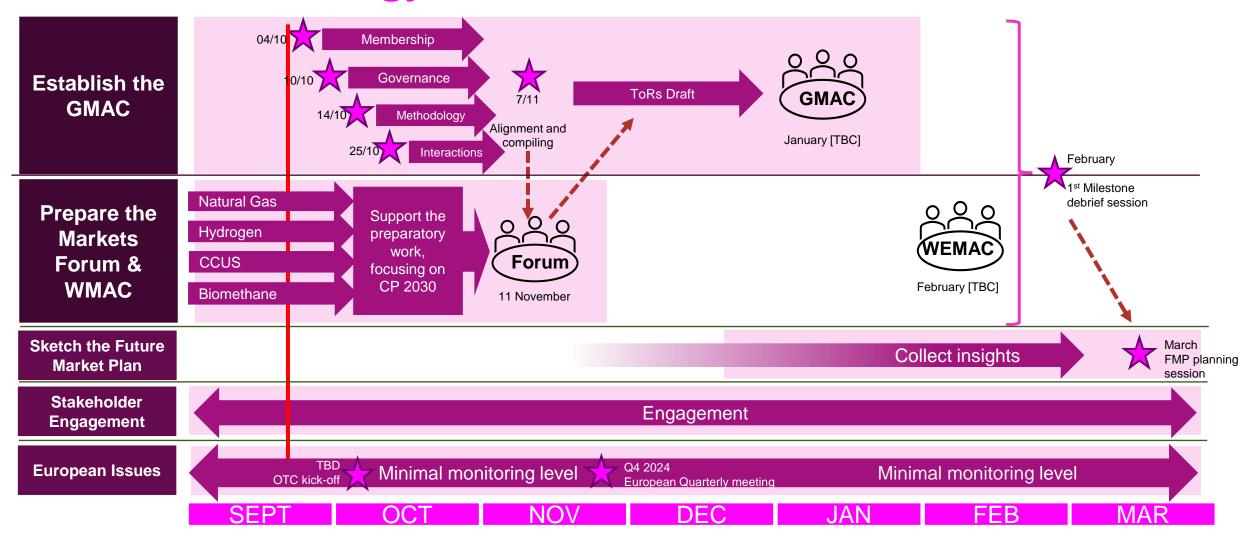
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Gas Markets Strategy Team





Gas Market Strategy – 6 months PoP







Markets forum

Monday 11th November, held at the Hilton London Tower Bridge Hotel

To register your attendance for this event, please follow the below Eventbrite link:

Markets Forum November 2024 Tickets, Mon, Nov 11, 2024 at 9:00 AM | Eventbrite





General Updates

Rachel Hinsley

Operational Liaison and Business Delivery Manager





NGT Sign up to our distribution list

We are leaving the Energy Network Association (ENA) by end of 2024, along with other Gas networks.

We are creating our own distribution list for notices which were communicated via the ENA.

From 1st November you will no longer receive any National Gas notices from the ENA.

Notices will include:

Capacity

o PARCA

Operating Margins

Sign up here:

Microsoft Form

Please sign up if you wish to receive notices from us before 31st October.

National Gas Data Portal SOAP API URLs will be changing



As part of our separation from National Grid, the data portal is moving from the Grid domain to the Gas domain. This means the SOAP API URL will be changing.

URLs impacted by this change:

- https://marketinformation.natgrid.co.uk/MIPIws-public/public/publicwebservice.asmx
- https://energywatch.natgrid.co.uk/EDP-PublicUI/PublicPI/InstantaneousFlowWebService.asmx

What happens next:



- We are assessing the impact and will provide more detailed information shortly. The change will likely take place before mid-January.
- We will be holding a 'change focus group' to gather input on the support you need to manage this change.



Register for the focus group via Box.OperationalLiaison@nationalgas.com

National Gas Data Portal SOAP API URLs will be changing

How we will communicate with you:

- We will post updates on the National Gas website here: https://www.nationalgas.com/our-businesses/operational-data/our-data
- > We will provide regular updates in this forum
- We will share bulletins with our National Gas Data Portal user community
 Sign up here via the QR code or email us at Box.OperationalLiaison@nationalgas.com

The actions for you:

- Please inform your local IT and technical teams that this change is coming
- Please extend to them the invite to join our 'change focus group' by emailing us at Box.OperationalLiaison@nationalgas.com
- Please extend the invite to join our data portal user community



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	х	Online only	Clermont & Online	Online only	х
Future Focus		Maintena nce Focus			Winter Review/ Summer outlook				Winter Focus		
V	V	V		V	V			V	V	1	

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

National Gas Transmission | October Ops Forum

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 16th	Feb 20th	Mar 27th	Apr	May 22nd	Jun 19th	Jul	Aug	Sep 18th	Oct 23rd	Nov 20th	Dec
Clermont & Online	Online Only	Clermont & Online	х	Online Only	Clermont & Online	х	x	Online only	Clermont & Online	Online only	X
Future Focus		Outage planning			Winter Review/ Summer outlook				Winter Focus		

Pre-registration: https://ngt.ticketbud.com/pre-registration-2025-operational-forums-online--bd3b7c03bd9b

If you are already signed up to the pre-registration it will be continued into 2025.

Q&A





Thank you



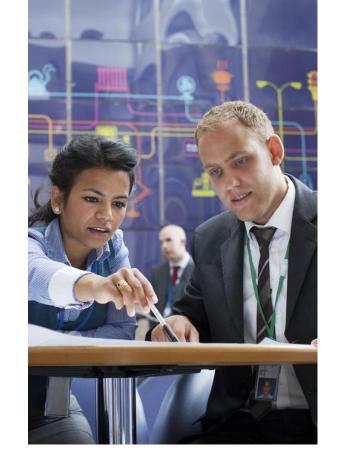
Information For Reference



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: Gas Transmission | National Gas

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