

Operating the network

We will start at 11.02 to allow participants to finish previous meetings and join the call

Slido.com
#gtx2

Welcome and Opening

Thank you for joining us today

Slido.com will be used for feedback and for Q&A

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Who will be speaking?

**Glenn Bryn -
Jacobsen**

**Head of National
Control**



Nera Lenden

**Customer &
Stakeholder Team**



Logistics



Should last for approximately about 60 min



Questions and polling via [slido.com](#) #gtx2



All callers will be placed on mute



We will circulate the slides and a recording of this webinar

Agenda

1. Current Summer Operations

2. Case Study – An interesting Day

3. Winter Outlook

4. Demand Side Response

Quick poll | slido.com #gtx2

Are there any other topics you would like us to cover in the future?

Answer on
Slido

Summer Operations

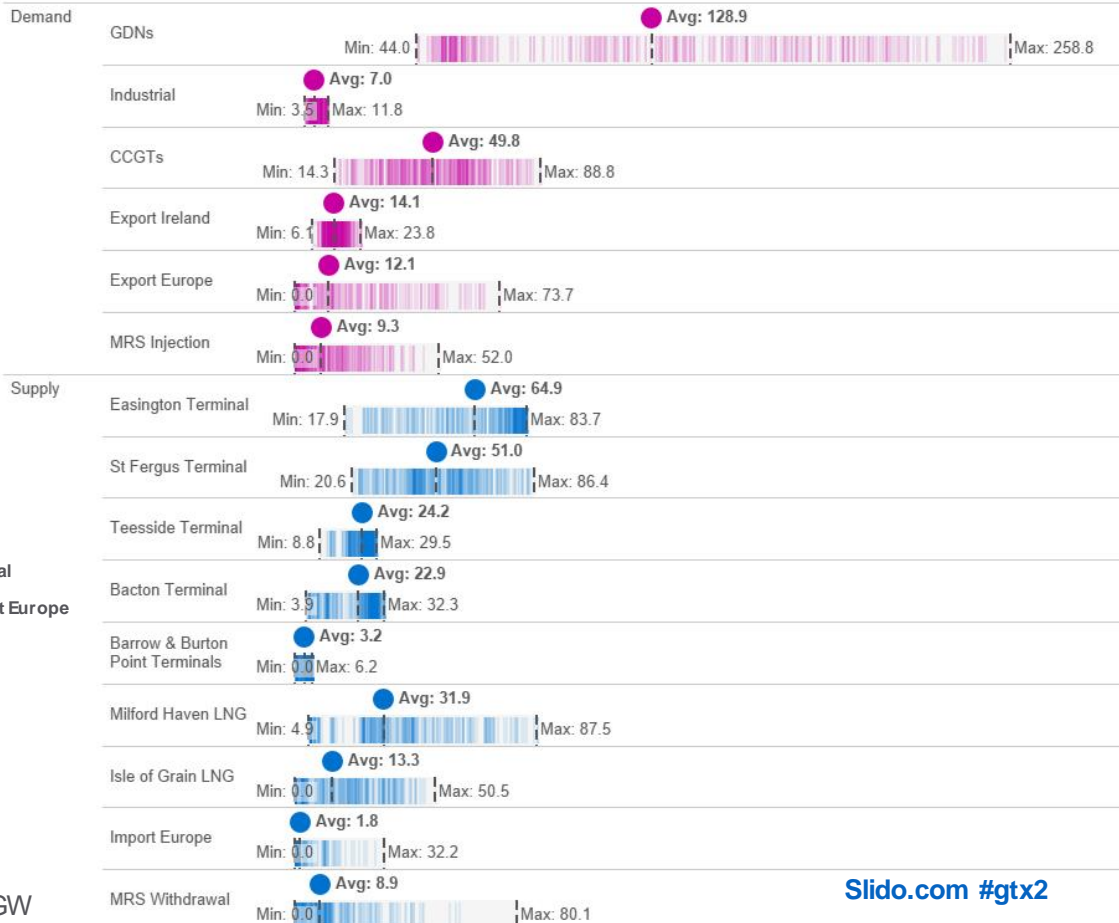
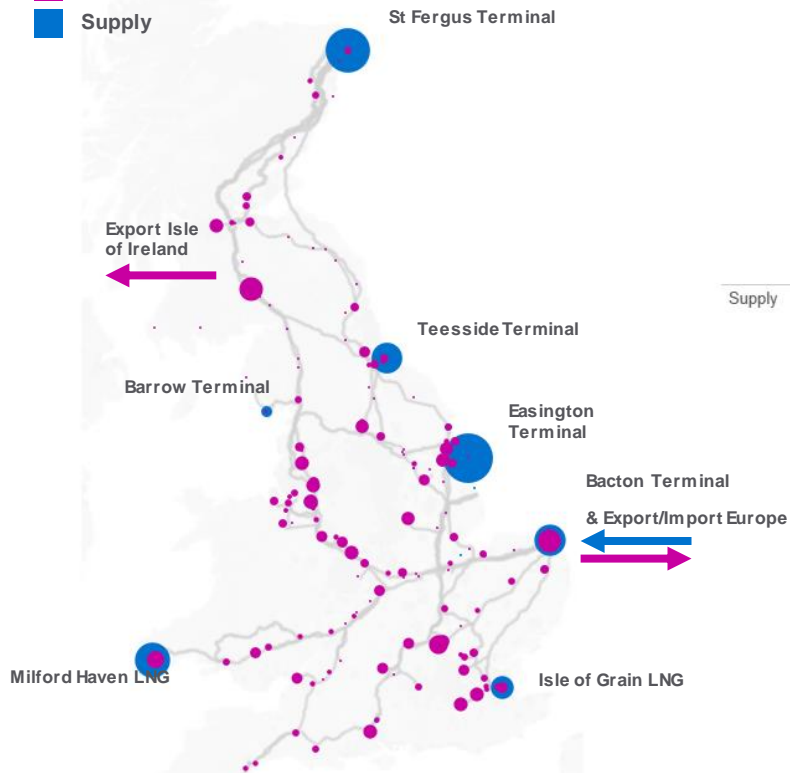


Getting your eye in: The GB Supply & Demand Picture 21/22

Average supply and demand by location

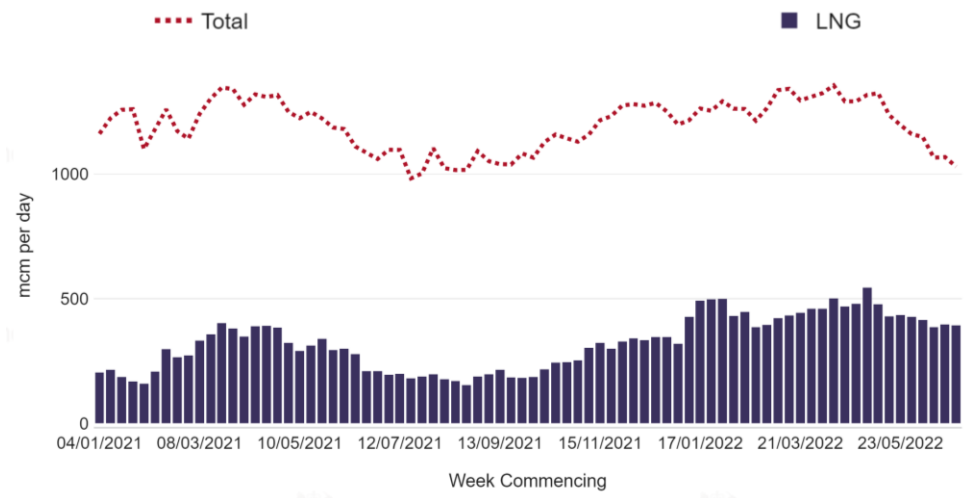
Data shown is volume in mcm/d based on 01/04/21 to 31/03/22

■ Demand
■ Supply



All units in presentation in mcm/d : 1mcm/d ≈ 11 GWh/d ≈ 0.5 GW

What's the European Supply Picture?



Russian Supplies Total

Nordstream : 69, Ukraine : 39, Yamal (BY,PL) : 0, Turkstream : 35mcm/d



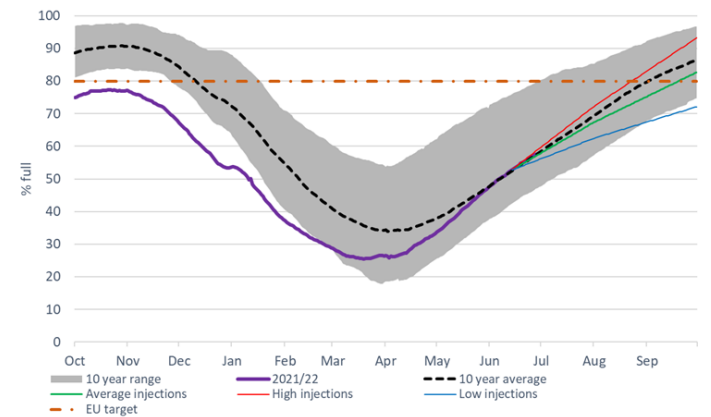
(2021 Level Approx. 450mcm/d)

- Significant reduction in Russian Flows
- Total supply impact offset mainly through increased European LNG
- EU Storage continues to fill - Impact of recent flow reduction on Nord-Stream 1 in meeting EU targets to be determined

Source: ENTSO-G, <https://transparency.entsog.eu/#/map>

Source: AGSI: <https://agsi.gie.eu/#/>

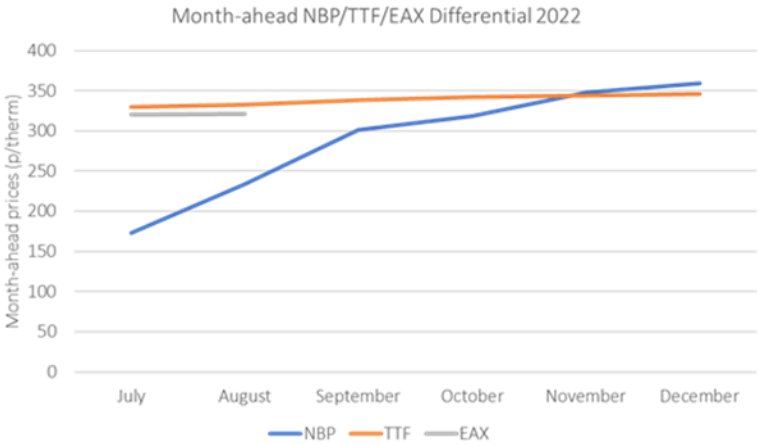
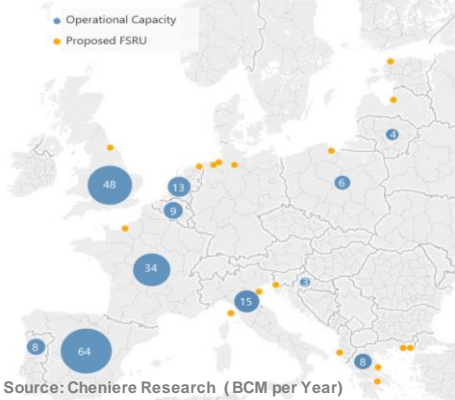
EU Storage



Gas Transmission

What's the impact on GB ? Historically high summer demand

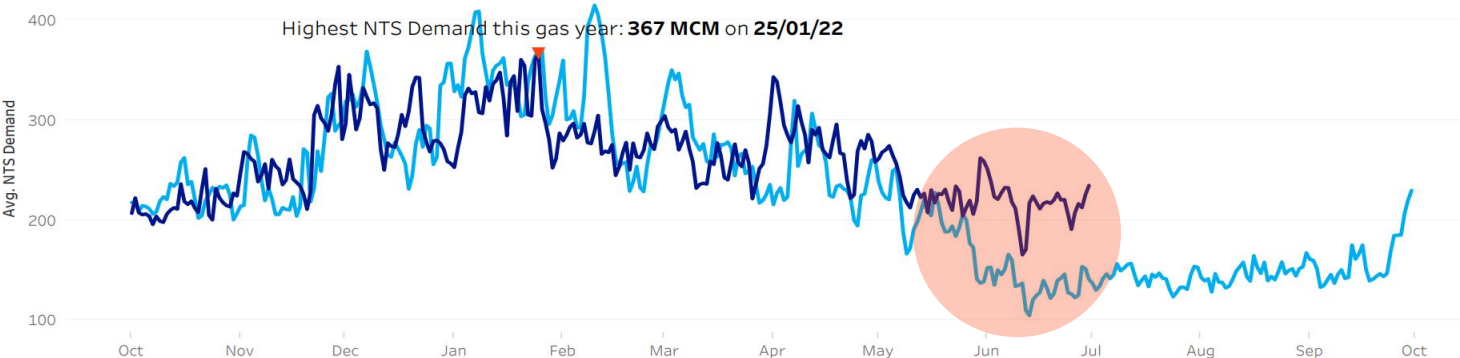
Operational Capacity in Europe



- UK has significant LNG gasification capability
- EU maximising current LNG capability with a significant number of proposed projects
- UK well supplied – Positive EU pricing differentials extending into the winter
- Volatile prices

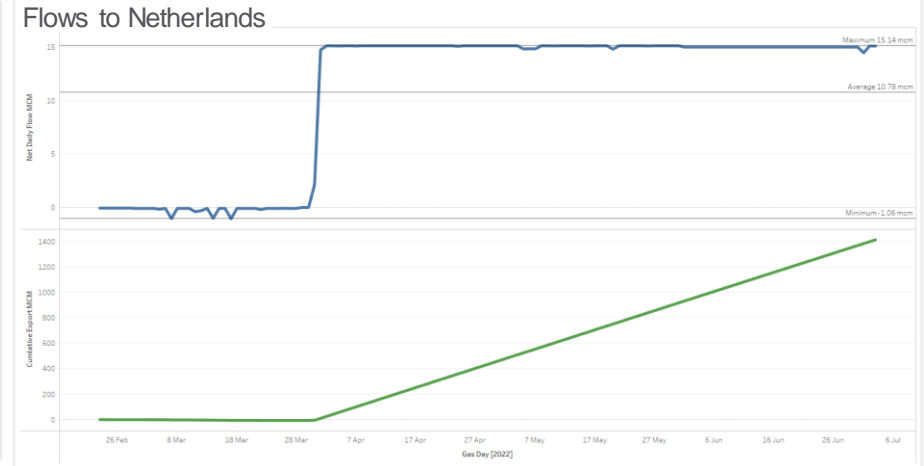
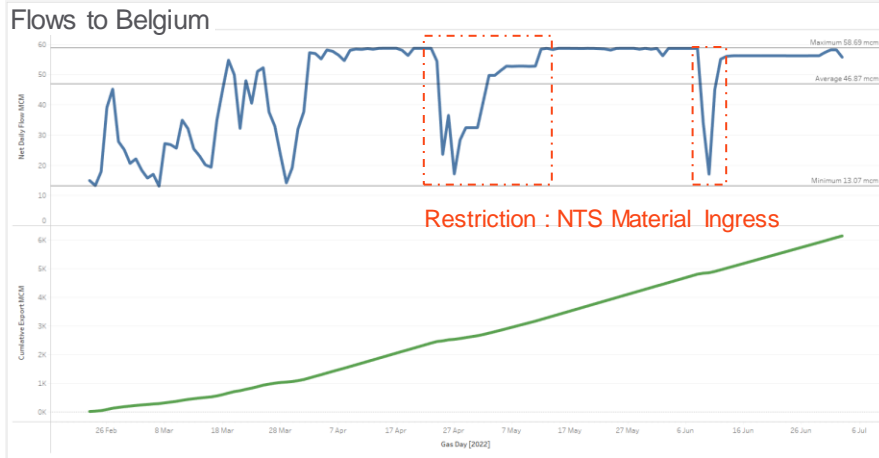
NTS Demand vs previous year

End of day values (mcm)



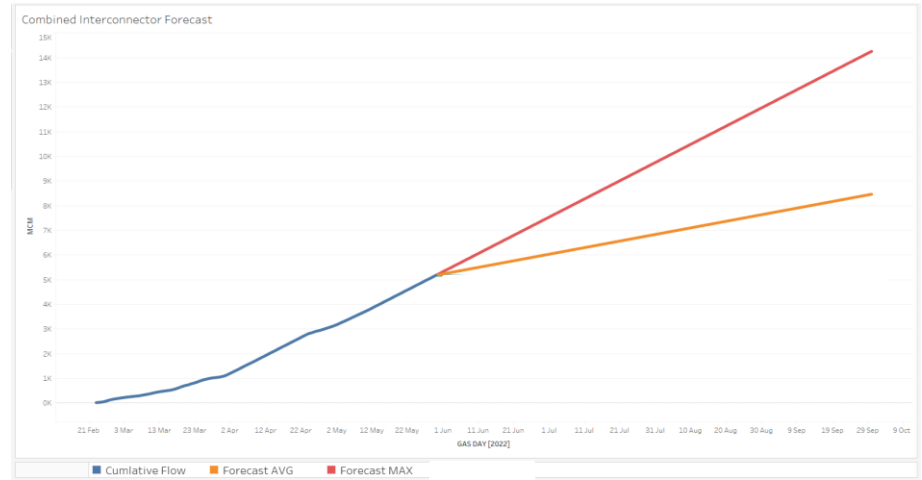
The UK Impact : EU Export Demand

1 mcm/d \approx 11 GWh/d \approx 0.5 GW



- Strong EU Export Demand : Approx.74mcm/d
- Export above obligated exit capacity levels (60mcm/d)
- Higher flows resulting in higher velocities increasing potential of delivery of material. Operational mitigations in place to reduce likelihood of future interruptions
- Significant contribution to EU's Storage refill targets

Gas Transmission

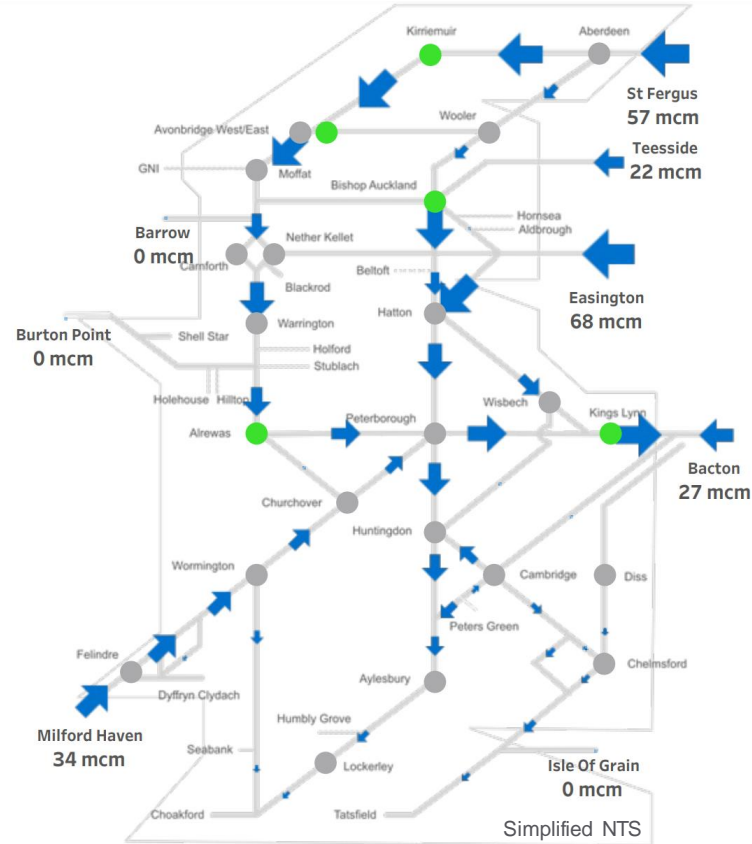


Typical Summer System Configuration: Snap Shot

- Overall summer strategy supply driven rather than domestic winter load driving compression
- Significant summer maintenance on the NTS delivering vital asset health investments
- Increased compression to support storage & high EU exports to meet overall customer requirements

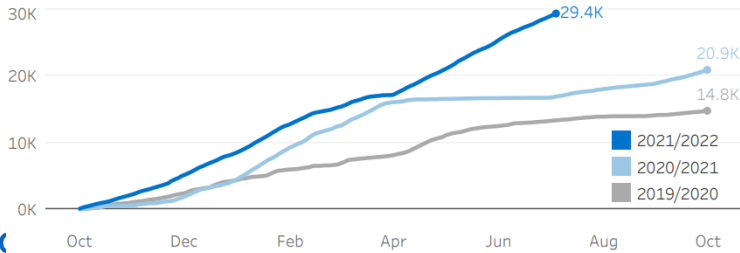
Last 7 days entry flows and compressor use

Based on the average flow/use over the last 7 days

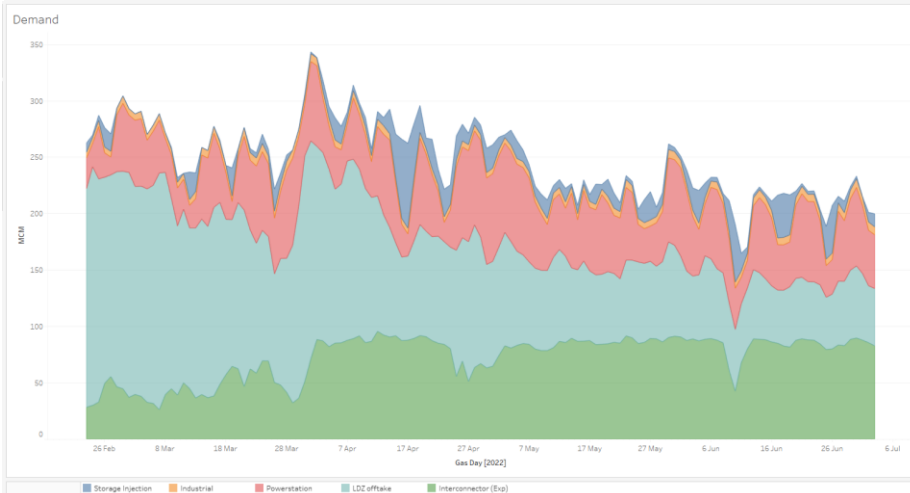
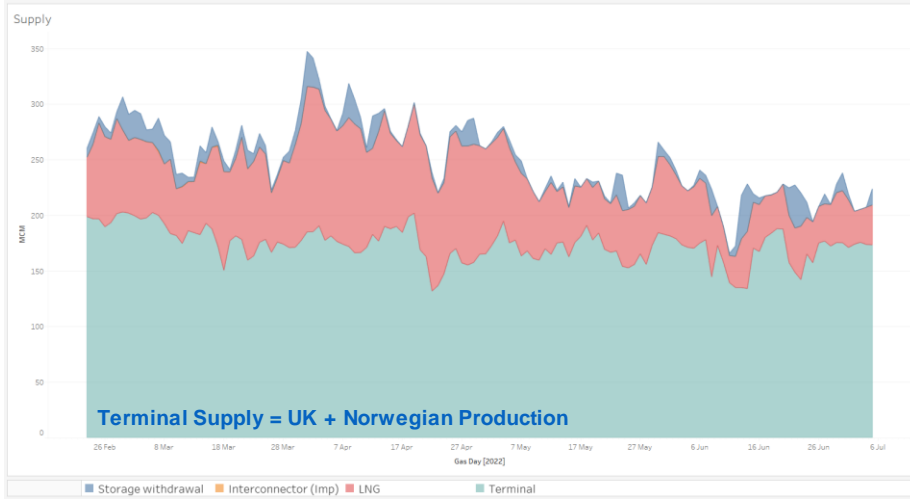


Gas year to date compressor use

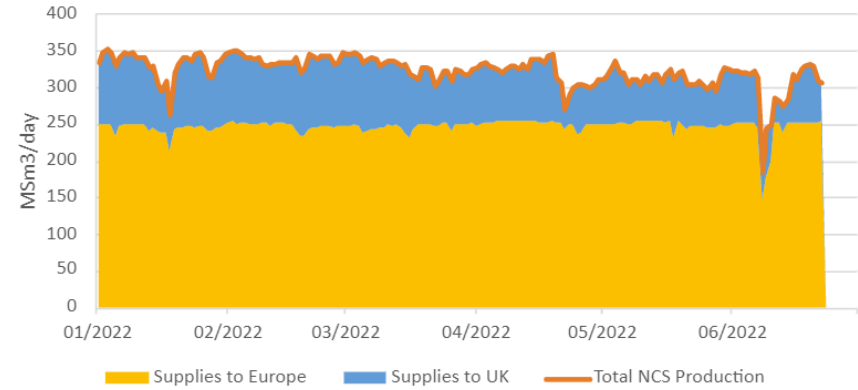
Cumulative running hours (Excludes St Fergus)



Overall GB Supply & Demand Picture



NCS Supplies to Europe/GB



- Norwegian supplies to UK balance of production
- Dynamic storage response to supply & demand balance
- Interconnector exports & (at times) storage injection / withdrawal greater than overall GB distribution demand
- LNG flows remain below system capability

Summer Low Demand Scenario

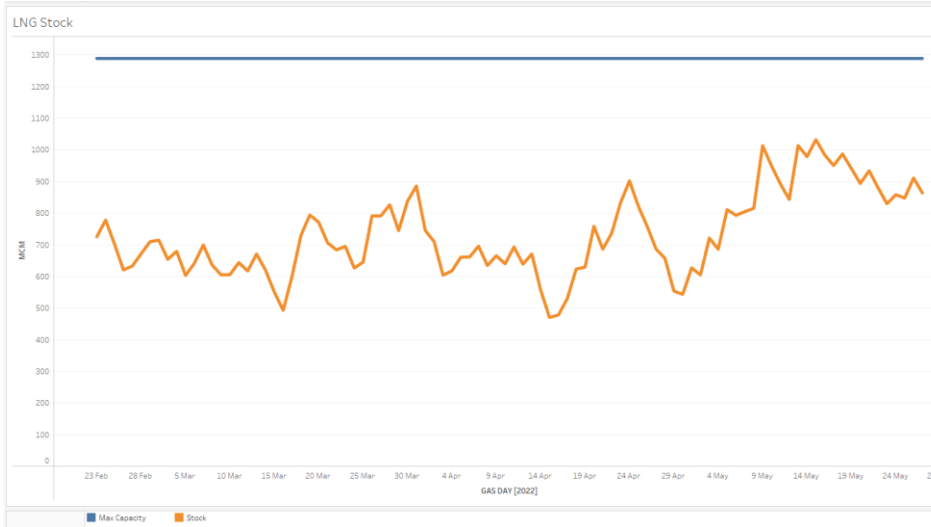
	Demand
Summer Domestic	45 mcm
High Renewable Power	15 mcm
Industrial	5 mcm
Full Storage, No Injection	0 mcm
Summer Ireland Export	10 mcm
Max EU Export	75 mcm
Summer 22 Low Demand Forecast	150 mcm

	Supply
LNG Min Boil-Off	5 mcm
Average UK + Norway (Summer 22 to date)	170 mcm
Total	175 mcm
Surplus without LNG	25 mcm

On warm summer days with high renewables little to no LNG would be required to meet GB demand + Max Exports

Current GB Stock Position

LNG



Storage Stock

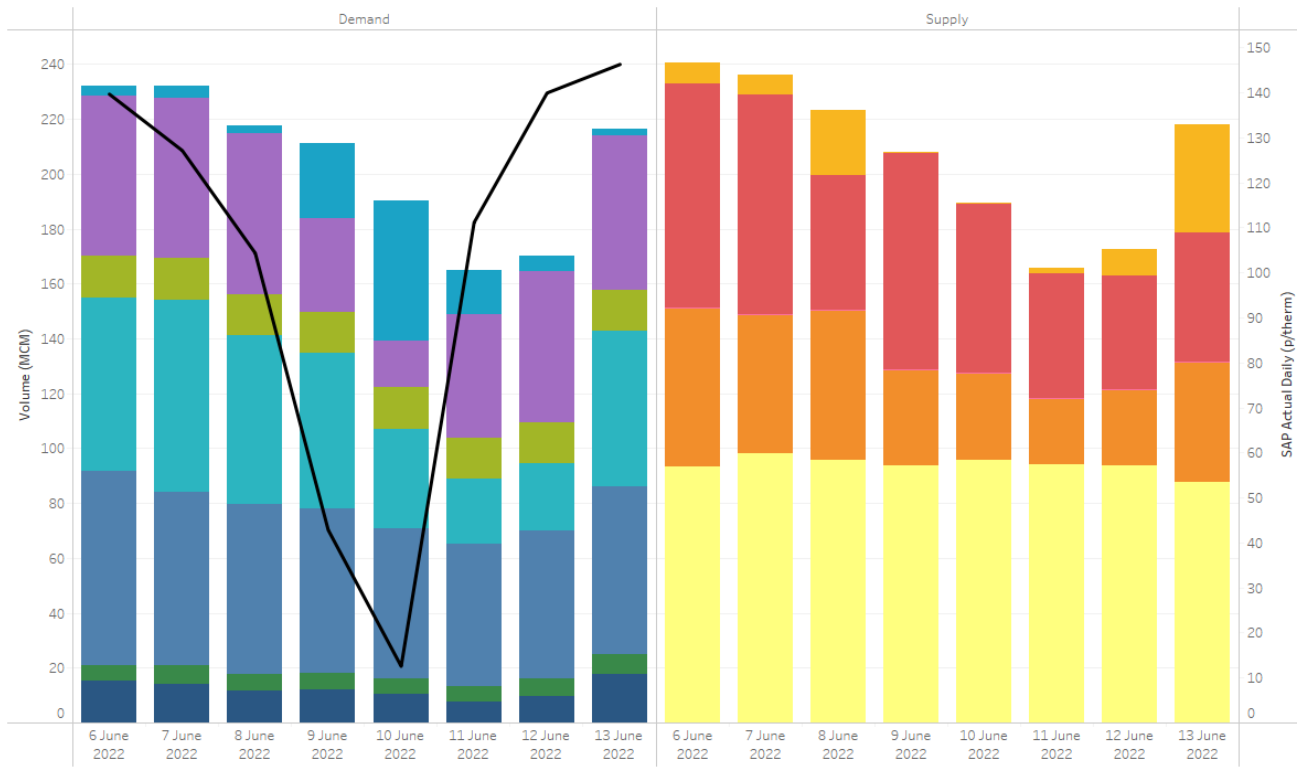


- GB Storage stocks > Approx. 85% full in aggregate
- Significant injection & withdrawal rates responding to overall GB imbalance
- Slower Injection rate sites continue to fill and/or close to maximum stocks

Case Study



Summer Case Study: Operational disruption to EU Exports



- NTS material ingress leading to interruption of Interconnector flows
- Storage well stocked : Relatively limited flexibility to absorb demand change
- Significant On-the-day price impact
- Response from Storage (Injection & Withdrawal after demand re-established) & reduction in Norwegian flows over the period



Winter Outlook



Scope of Winter Outlook

- Previous Winter Outlook publications focussed on upstream and onshore physical capability
- This still remains an essential element of looking at the operations for the winter period
- Given the recent geo-political situation and market volatility we recognise the need to provide additional insight and information into how supplies may be needed to meet varying demand

Proposed Winter Outlook Content

- Additional demand scenarios to set out the basis on which supply can be assessed
- Supply scenarios which test Security of Supply and the requirement for flexible supplies
- Detail on new/additional tools, monitoring and reporting that has been developed for this coming winter
- Provision of more information on what monitoring and reporting we undertake throughout the winter and quick links to find it

Next Steps

- Collating all the feedback
- Early drops of Winter Outlook in July and August
- Including a playback of feedback
- Full Winter Outlook early October along with the Ofgem led Winter Outlook Launch

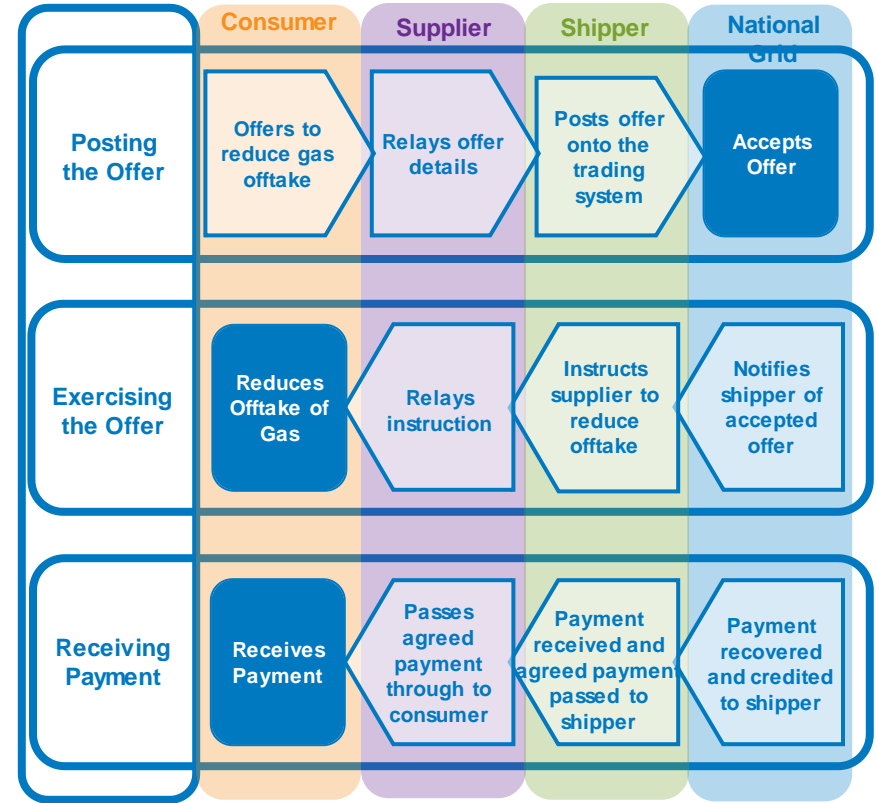
Demand Side Response



Gas DSR

Gas DSR enables large consumers to offer to reduce their demand via their shipper / supplier during the build up to a gas emergency, in return for a payment which they define

- Introduced in 2016, during times of insufficient gas supply, the use of gas DSR could reduce the likelihood, severity and duration of a gas deficit emergency
- Shippers may place offers to sell gas volumes on the OCM DSR market which NGG may accept after a Gas Balancing Notification (GBN) has been issued prior to declaration of a Stage 2 emergency



Gas DSR: Recent Feedback and Planned Next Steps

Recent feedback from market participants suggests that:

- Incentives for consumers to participate in Gas DSR via their shipper/supplier are currently insufficient
- It is therefore unlikely that DSR offers would be available if a GBN is issued
- Option payments to consumers could help to stimulate this market and provide assurance that curtailment volumes would be available, if needed

We are therefore planning a ‘twin-track’ engagement approach over the coming weeks to assess the case for DSR reform this winter

Consumers, shippers & suppliers:

- Better understand the current blockers to DSR
- Identify what changes to the current rules would be needed to stimulate participation

UNC parties:

- Discuss the issues associated with introduction of option payments
- Engagement to inform a potential UNC Modification

Poll update

Are there any other topics you would like us to cover in the future?

Questions



What next?



You will receive the recording and material from today's session



If you have any further questions or would like to discuss anything specific please get in touch with Nera.Lenden@nationalgrid.com



Feedback is important to us, therefore if you have not already taken part, we would like to put you forward for a survey

Keynote speech

[Watch again](#)

**Digital strategy and
information provision**

Monday 11th July

[Register Here](#)

Future Regulation

Tuesday 12th July

[Register here](#)

Future of energy

Thursday 14th July

[Register here](#)

Thank you for joining us





Gas

Transmission