

Gas
Transmission

Gas Operational Forum

WebEx

25 February 2021

9.32am

Slido

#GasOps21

nationalgrid



Gas Transmission

Introduction & Agenda



Joshua Bates
Operational Liaison & Business
Delivery Manager

nationalgrid



Presenters

National Grid

Joshua Bates – Operational Liaison and Business Delivery Manager

George Killick – Operational Strategy Engineer

Martin Cahill – Operational Liaison Lead

Sarah Carrington - Comms & Engagement Lead for Gemini

Tom Wilcock – Safety, Response and Assurance Manager

Rachel Hinsley – Senior Codes Change Lead

Tom Lane – Principle Energy Strategy and Development Analyst

Scott Keogh – Senior Settlements Analyst

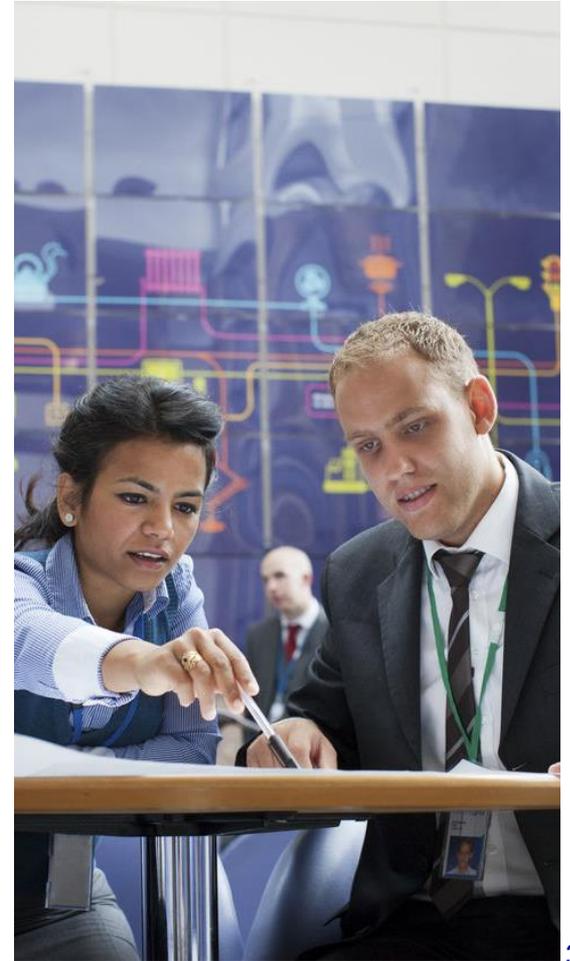
Northern Gas Networks

Emma Buckton – Supply Strategy Support Manager

Gas Networks Ireland

Paul Crowley – Grid Control Engineer

National Grid



Calendar year 2021 Ops forums

All forums will be held via WebEx until at least June 2021

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Online	Online	Online	X	Online	Online	X	X	TBC	TBC	TBC	X
28/01	25/02	25/03		20/05	17/06			23/09	21/10	25/11	

**Registration is open for all
2021 events at:**

<https://www.nationalgridgas.com/data-and-operations/operational-forum>

Housekeeping for WebEx Forums

During our WebEx events;

- Attendees will be automatically muted on dial-in, please ensure your cameras are off too.
- You can ask any questions via sli.do and we will answer them at the end of each section. The meeting code is #GasOps21. Please do not send messages via WebEx as these will not be monitored during the session
- You can use the 'raise a hand' function on WebEx if you would like to speak and we will un-mute you.
- For both presenters and any verbal comments, please state your name and company before speaking.



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.

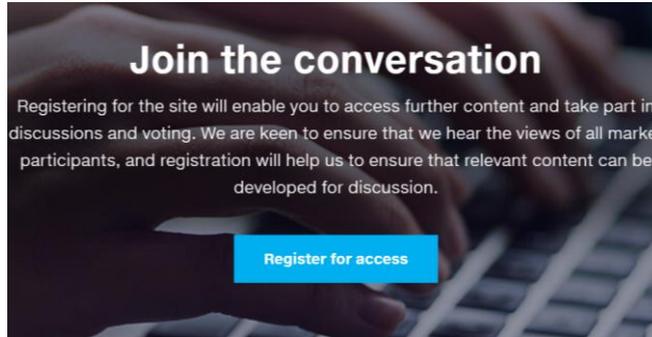
Registration is open for all 2021 events at:

<https://www.nationalgridgas.com/data-and-operations/operational-forum>

Gas Distribution List

<https://subscribers.nationalgrid.co.uk/h/d/4A93B2F6FAF273DE>

National Grid



Join the conversation

Registering for the site will enable you to access further content and take part in discussions and voting. We are keen to ensure that we hear the views of all market participants, and registration will help us to ensure that relevant content can be developed for discussion.

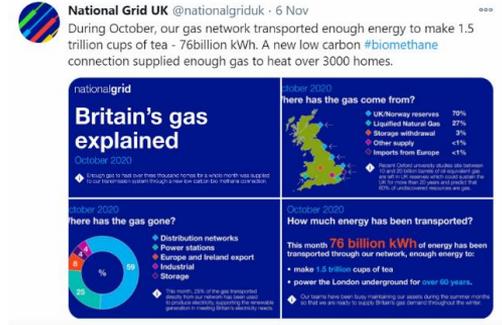
[Register for access](#)

For updates and interaction with National Grid please visit;

<https://datacommunity.nationalgridgas.com/>

For the National Grid Gas Website, please visit;

<https://www.nationalgridgas.com/about-us>



National Grid UK @nationalgriduk · 6 Nov

During October, our gas network transported enough energy to make 1.5 trillion cups of tea - 76 billion kWh. A new low carbon #biomethane connection supplied enough gas to heat over 3000 homes.

Britain's gas explained

October 2020

- UK/Norway reserves 70%
- Liquefied Natural Gas 27%
- Storage withdrawal 3%
- Other supply <1%
- Imports from Europe <1%

October 2020

How much energy has been transported?

This month **76 billion kWh** of energy has been transported through our network, enough energy to:

- make 1.5 trillion cups of tea
- power the London underground for over 60 years.

For the monthly Gas Explained information please visit;
<https://twitter.com/nationalgriduk>

Or follow our personal accounts on LinkedIn

How to contact us

Operational Liaison Team

Joshua Bates: Joshua.Bates@nationalgrid.com

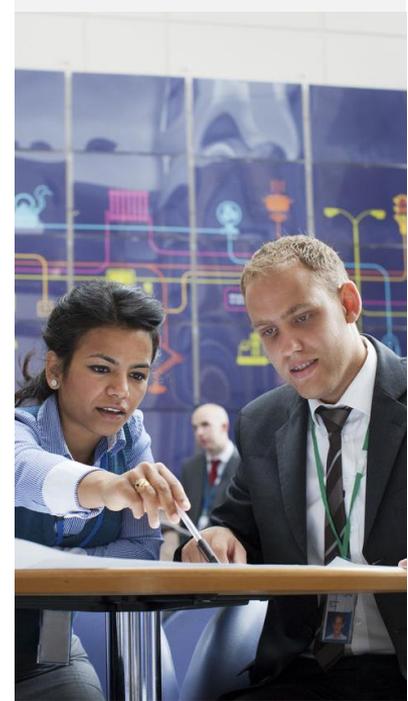
Martin Cahill: Martin.Cahill@nationalgrid.com

Operational Liaison Email:
Box.OperationalLiaison@nationalgrid.com

For updates and interaction with National Grid please visit;
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For the National Grid Gas Website, please visit;
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National GridJoin at [slido.com](https://www.slido.com) #GasOps21



Agenda for Today

01	Welcome and Introduction	09:30
02	Operational Overview	09:35
03	High Demand Week 8 th February - NTS Level National Grid - Northern Gas Networks (Guest Presentation) - Gas Networks Ireland (Guest Presentation)	09:50
04	Interesting Days	10:15
05	Gemini System Enhancements User Trials	10:30
06	Future of Balancing Systems	10:40
07	Regulatory and Commercial Change Update	10:50
08	OCM Contingency Exercise	11:00
09	Operational Data Next Steps	11:10
10	Updates: Energy Balancing: After the Day and Invoicing Review of the Impact of a Gas Supply Shortage on the Electricity Network (RIGSSE)	11:20

National Grid

Please ask any questions
using slido #GasOps21 or
by raising your hand.

These will be covered at the
end of each agenda section

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Joining as a participant? # GasOps21 →

Gas Transmission

Operational Overview



George Killick
Operational Strategy
Engineer



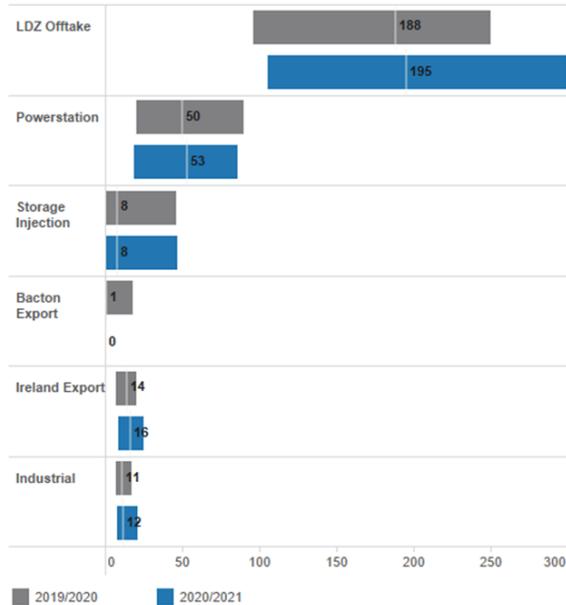
Martin Cahill
Operational Liaison Lead

national**grid**

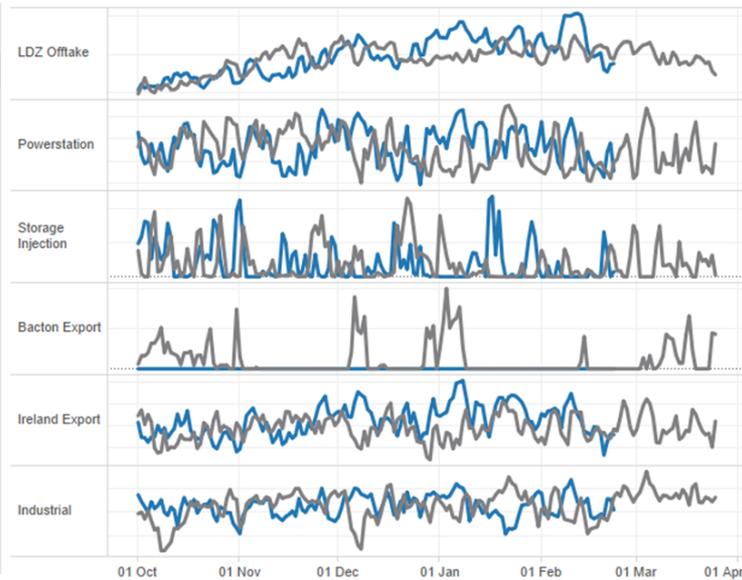


NTS Demand

Average Daily Volume and Range (Winter)



Trend Vs Previous Year



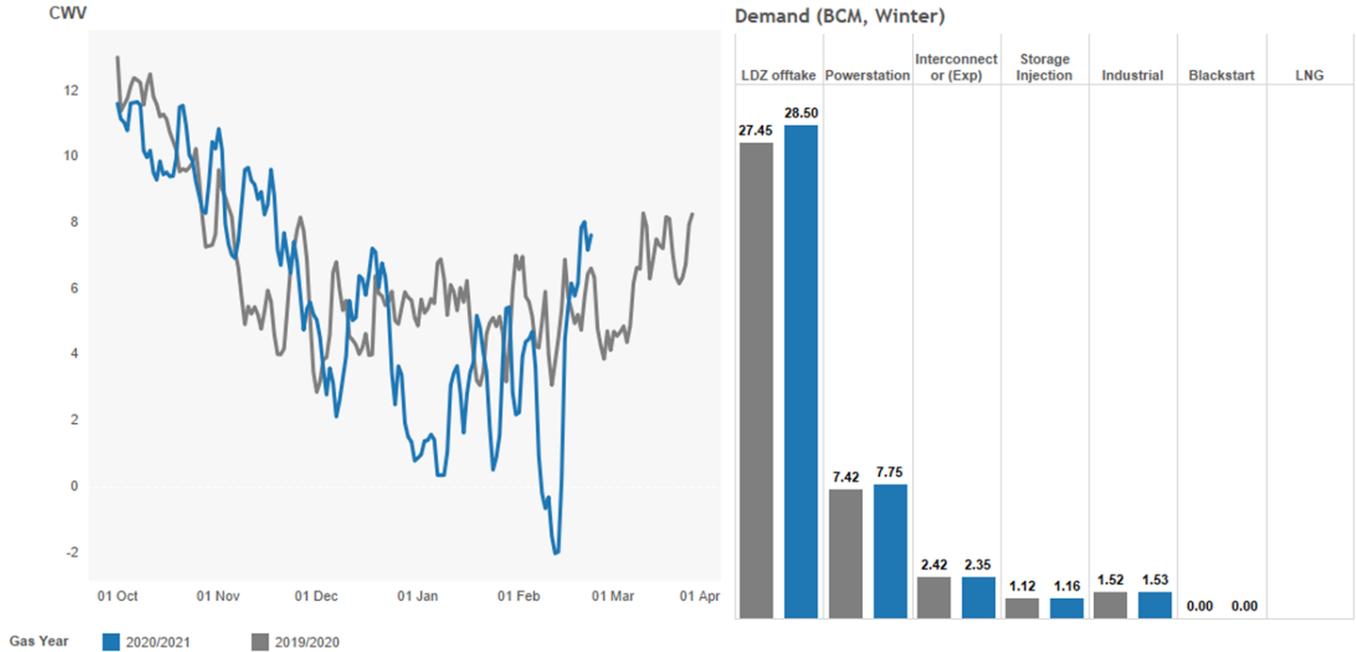
High LDZ Demands on the network during early February

Negligible Bacton exports throughout the winter

Higher Irish peaks in line with UK demand peaks

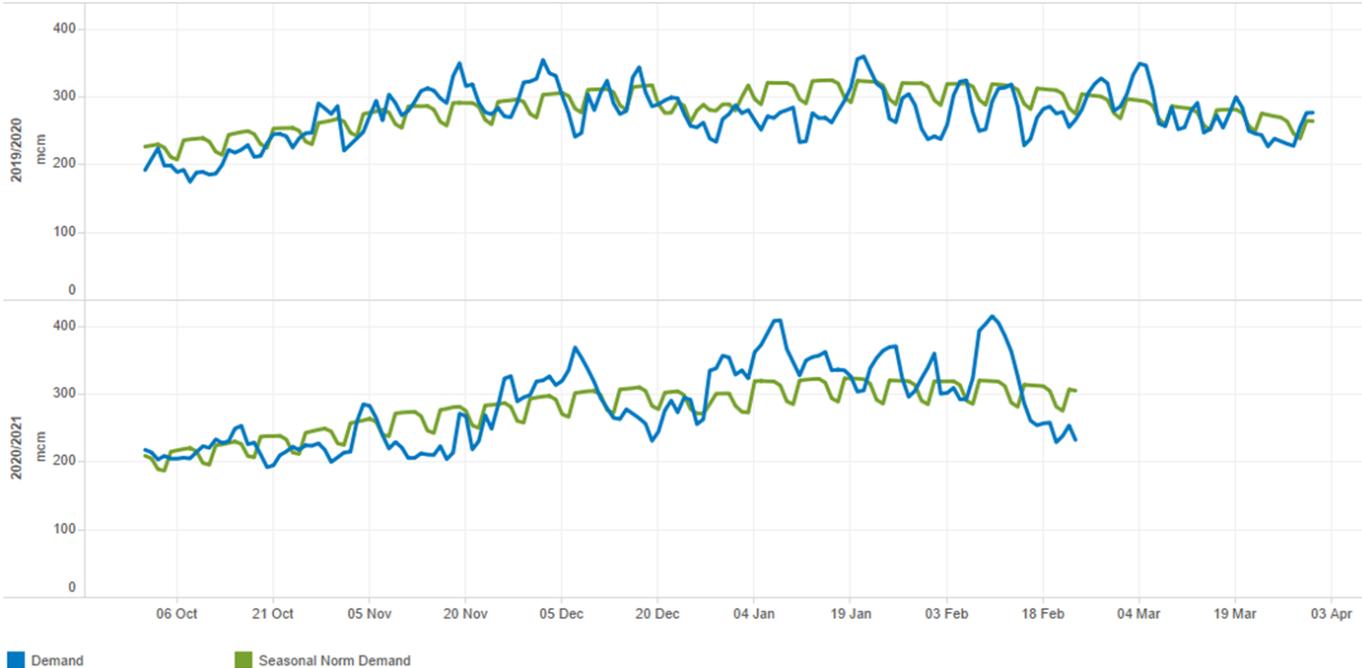
Industrial demand maintained at consistent levels

Demand & CWV



January and February was significantly colder than the same period last year

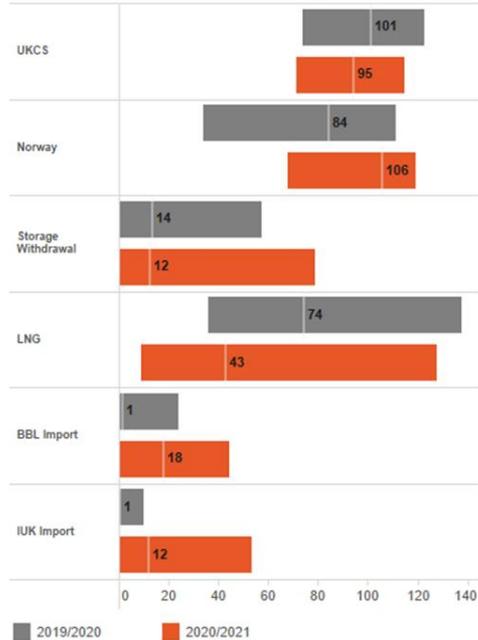
Demand – Comparison to Seasonal Norm



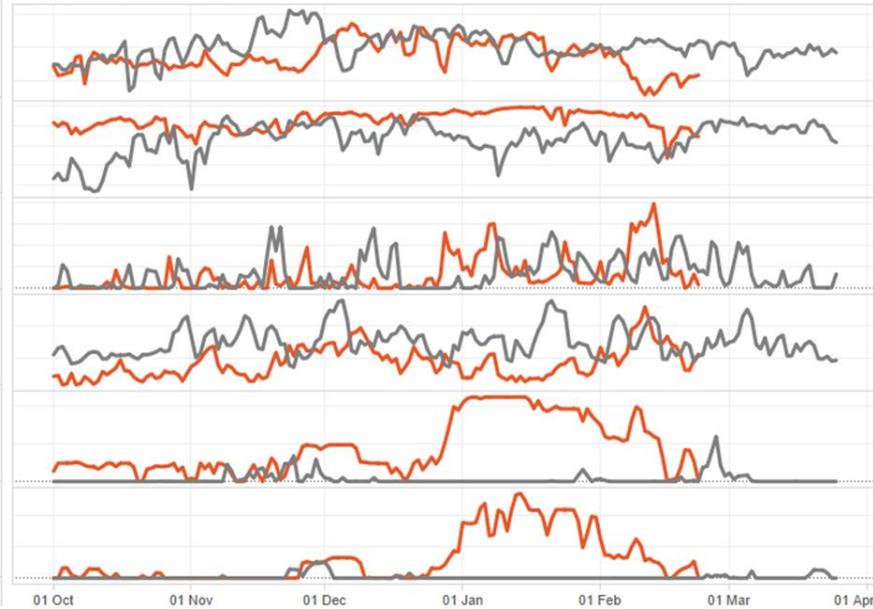
Demand regularly above seasonal normal in January and February

NTS Supply

Average Daily Volume and Range (Winter)



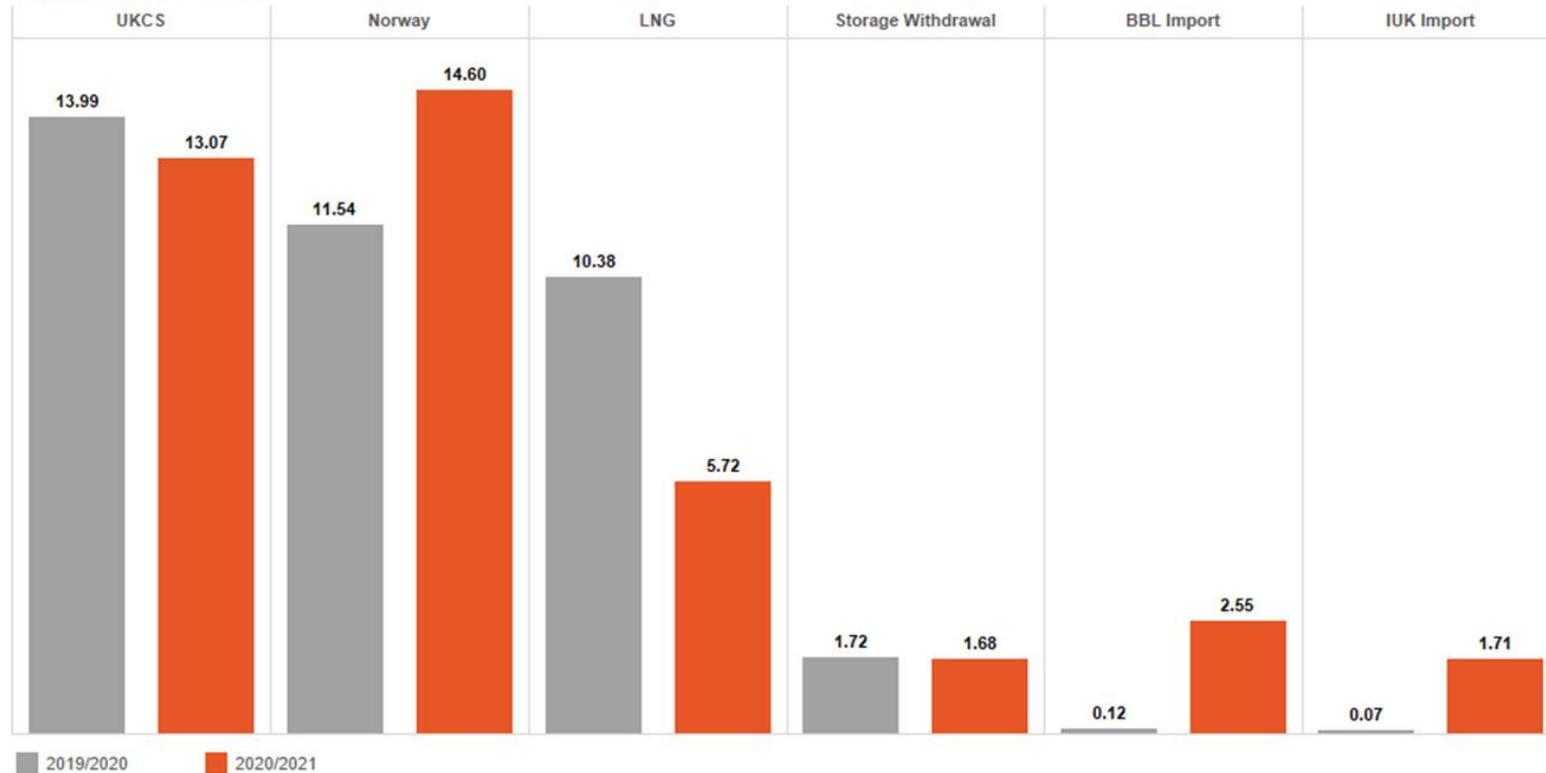
Trend Vs Previous Year



Interconnector imports have continued to stay at high levels since last month

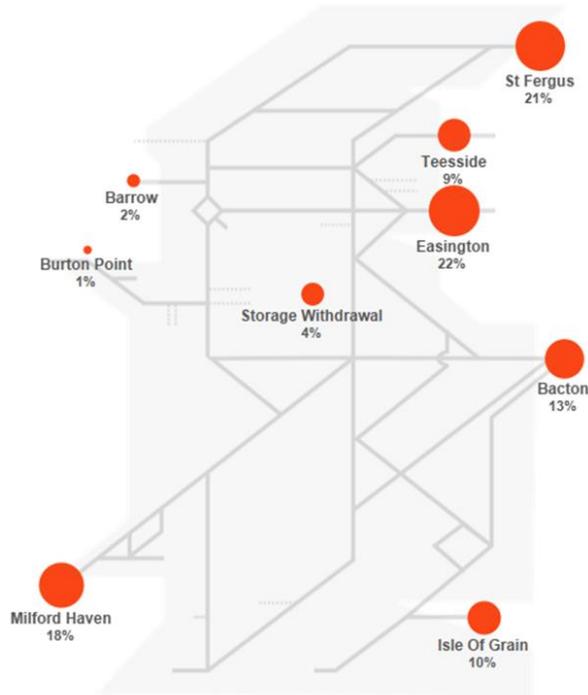
Supply – Yearly Comparison

Supply (BCM, Winter)

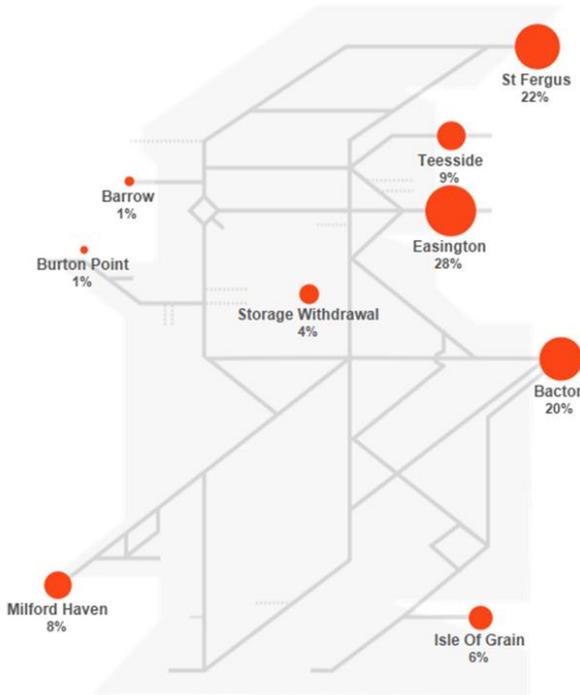


Supply Map

2019/2020 Percentage of total supply (Winter)

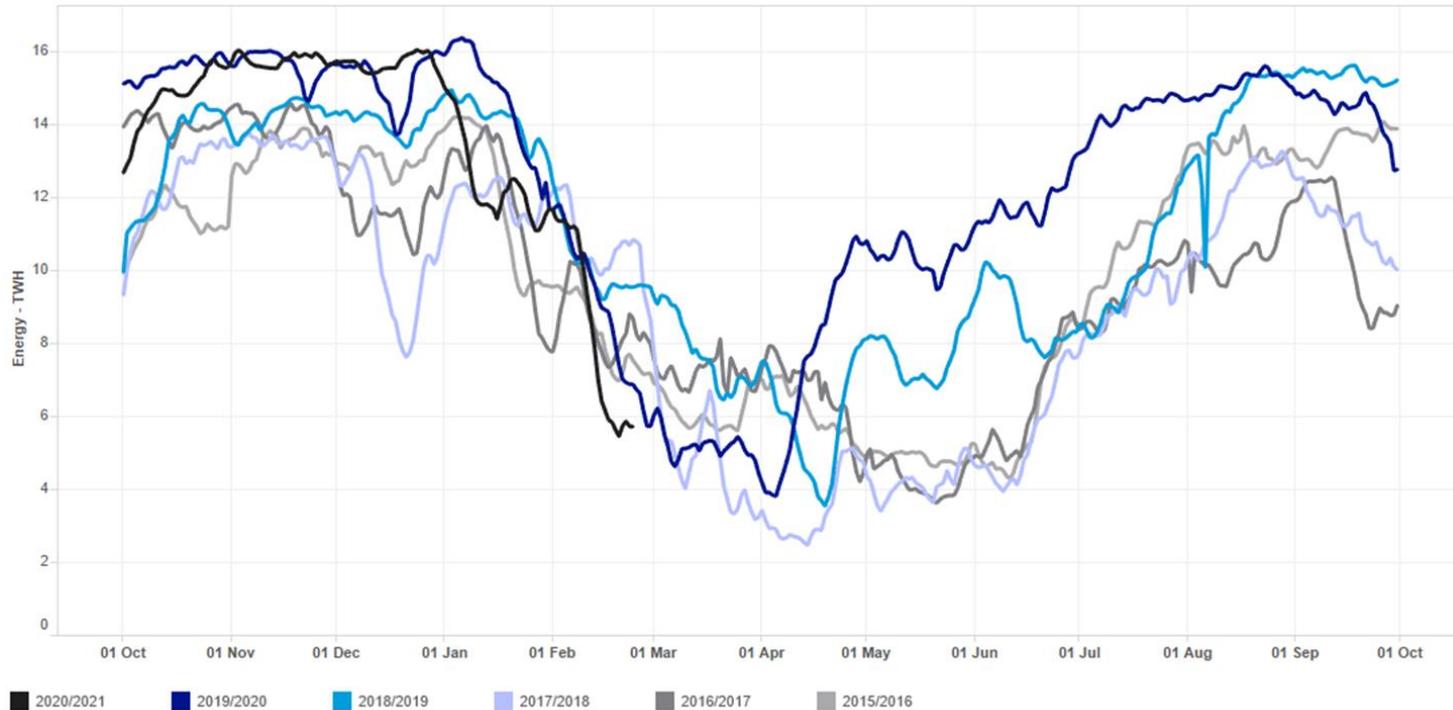


2020/2021 Percentage of total supply (Winter)



This winter has seen a 10% reduction of LNG supplies compared to last winter

Storage Stocks

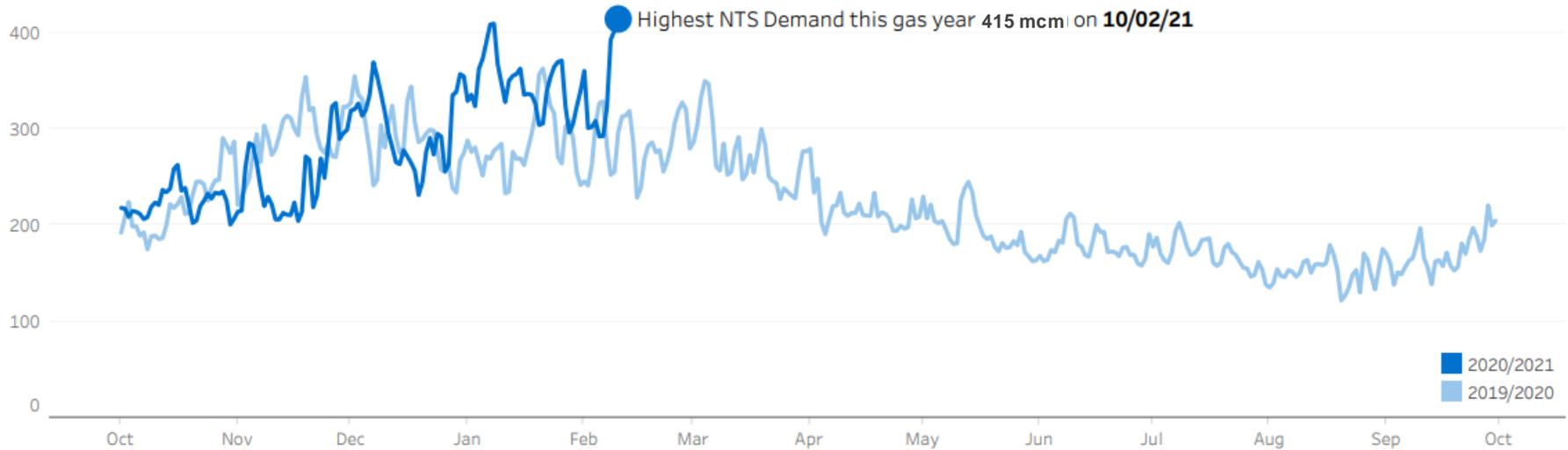


Noticeable drop in storage stocks over the last months, reflecting their higher supplies

Demand vs Last Year

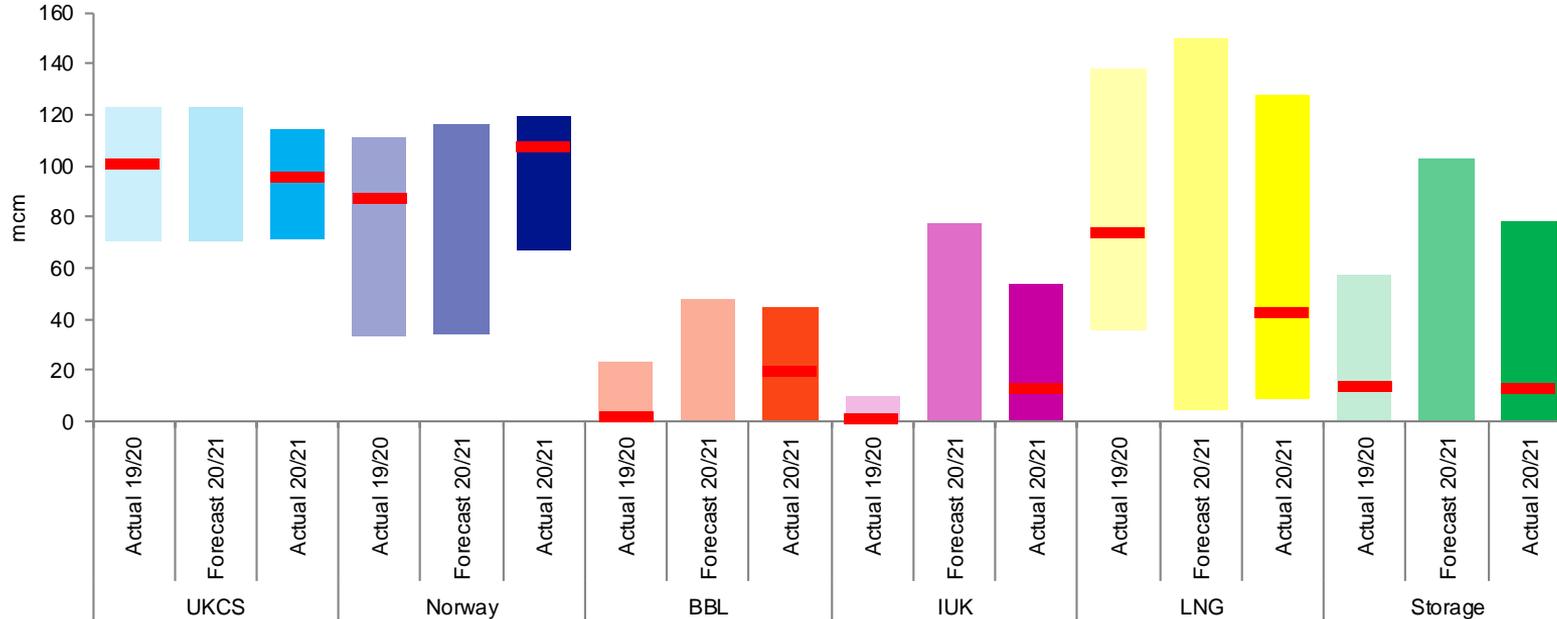
NTS Demand vs previous year

End of day values (mcm)



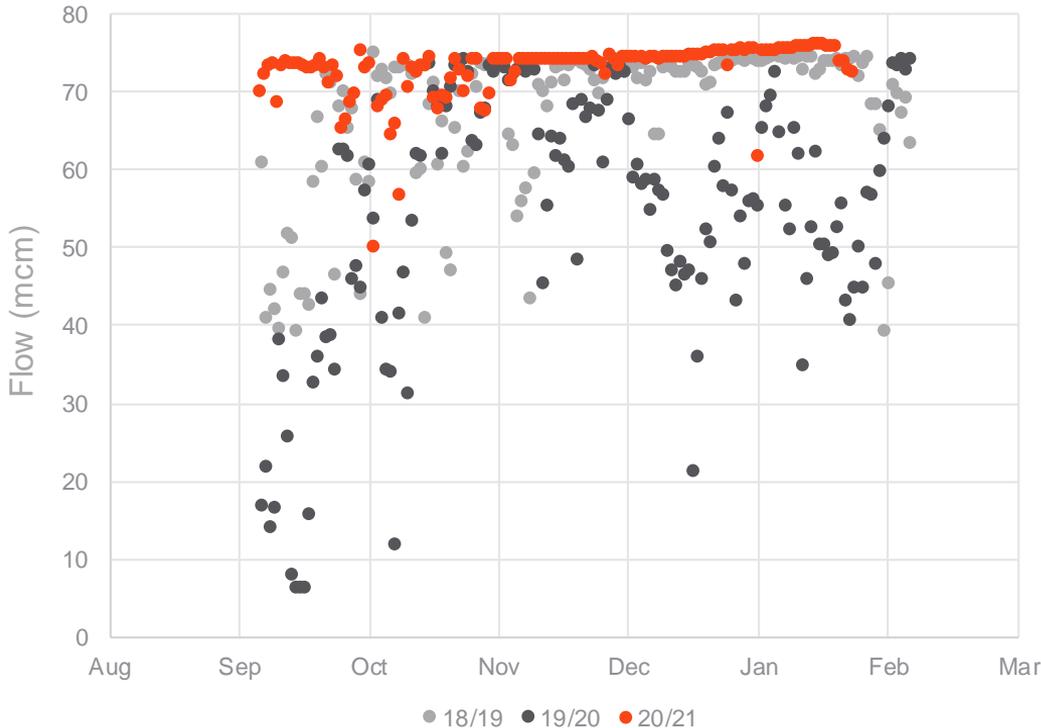
This year we have seen some larger peaks in NTS Demand, peaking at 415mcm on the 10th February

Supply Trends



Higher Interconnector Imports
Very consistent Norway Supply
Flexible delivery from LNG sources

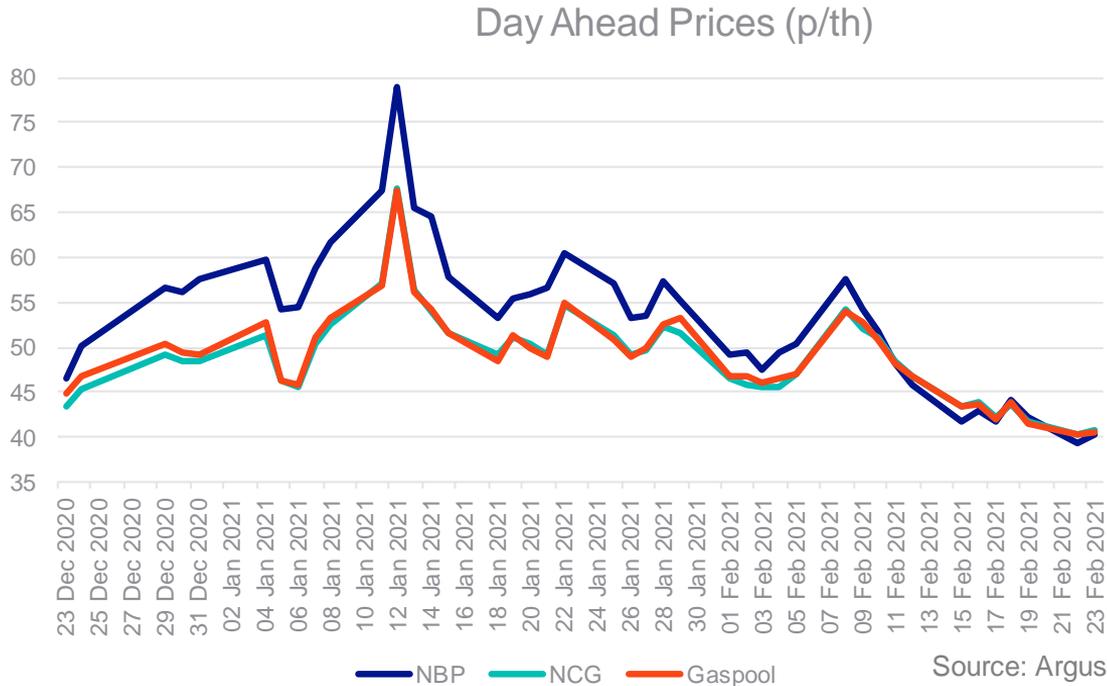
Easington Langedel Flows



In 2019/2020 Norwegian supplies were significantly lower in the shoulder months

Langedel in particular has remained consistently high

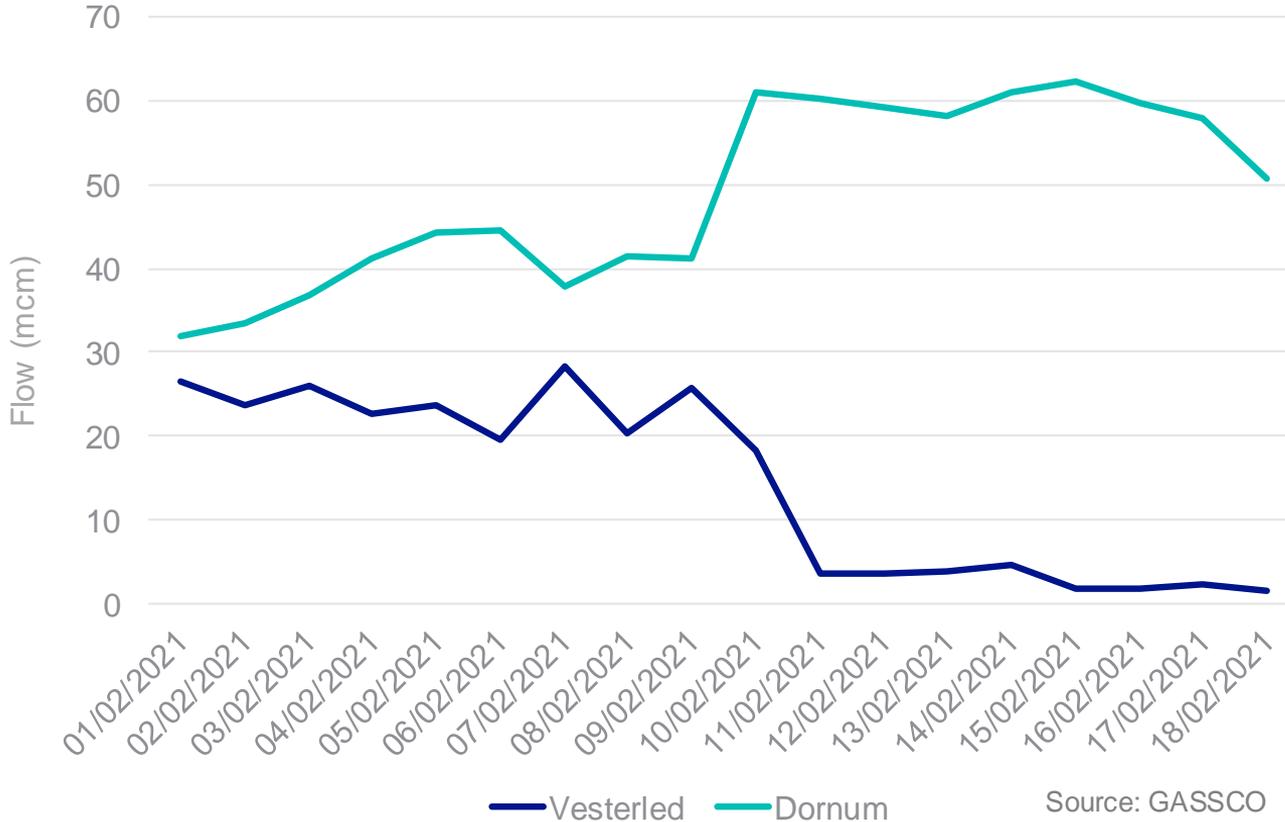
NBP v Germany Prices



With colder weather in Germany during mid February, Norway flows to Dornum were prioritised over Vesterled

Langeled deliveries still remained high during this time

Dornum/Vesterled Flows

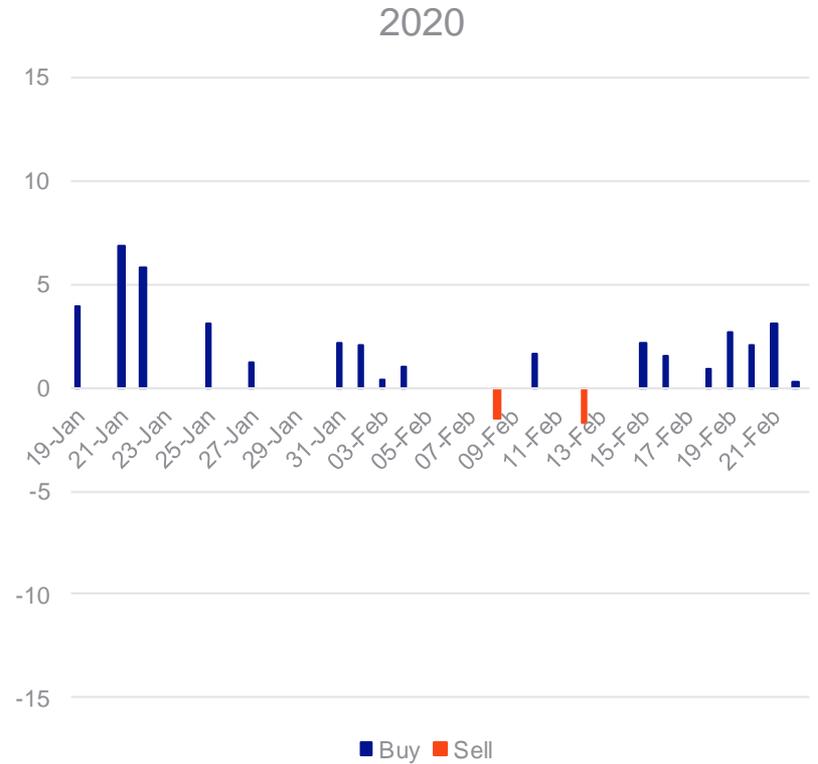
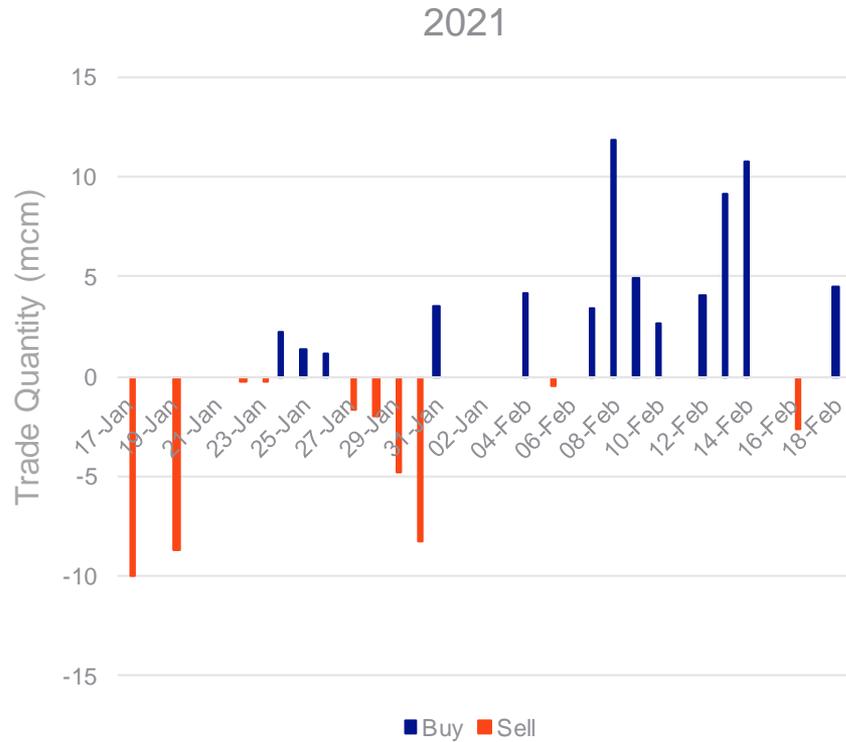


With colder weather in Germany during mid February, Norway flows to Dornum were prioritised over Vesterled

Langeled deliveries still remained high during this time

Source: GASSCO

Recent Balancing Actions



Gas
Transmission

High Demand Week 8th February

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Northern Gas Networks

Gas Networks Ireland

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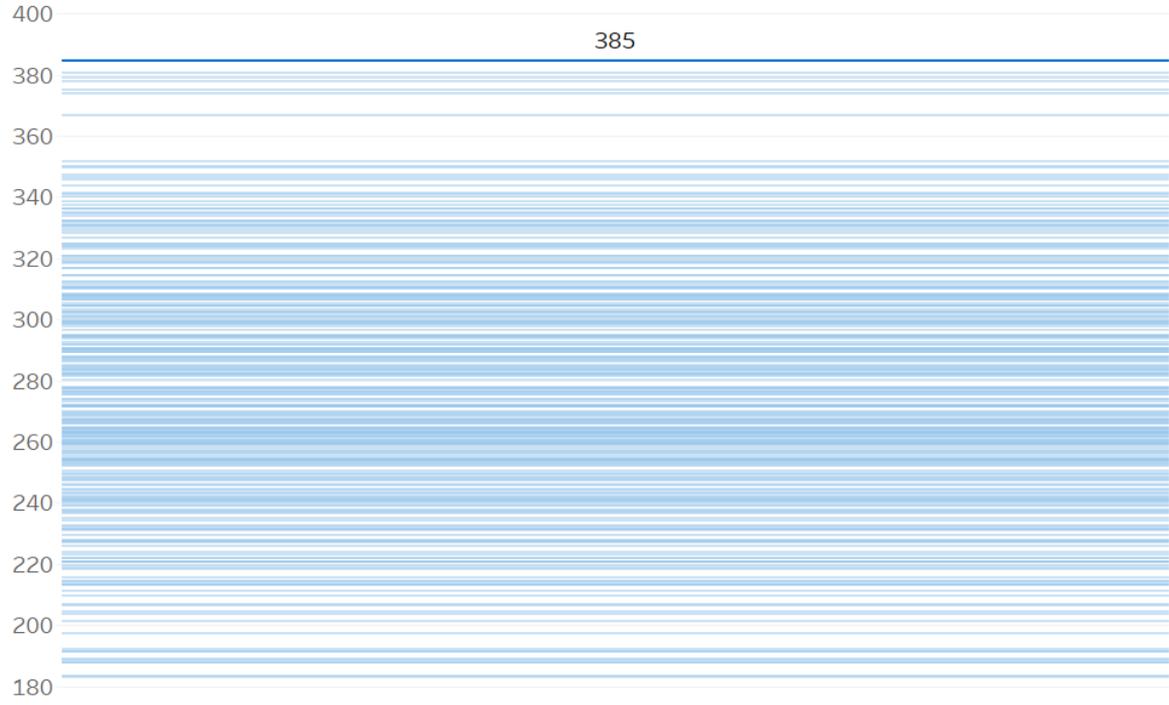
Week of 8 February

The average demand in week commencing 8 February 2021 was 385 mcm

This is the highest weekly demand on the NTS in the last 10 years

Average Weekly Demands - Winter (mcm/d)

Each line represents the average NTS demand for a week
Data for gas years 2011/12 to 2020/21

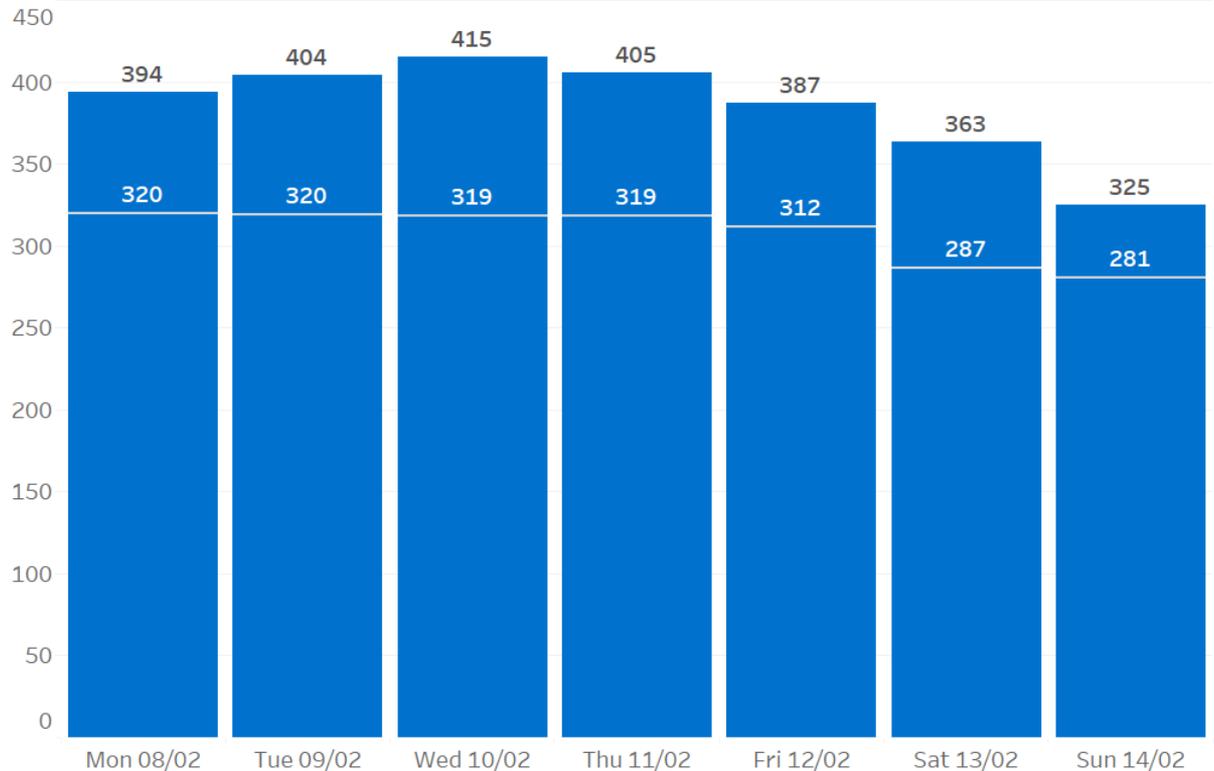


Highest demand day in 2020/21

The highest demand day was Wednesday 10 February with a total NTS demand of 415 mcm

NTS Demand (mcm/d) - Week commencing 8th Feb

Actual demand compared to seasonal normal

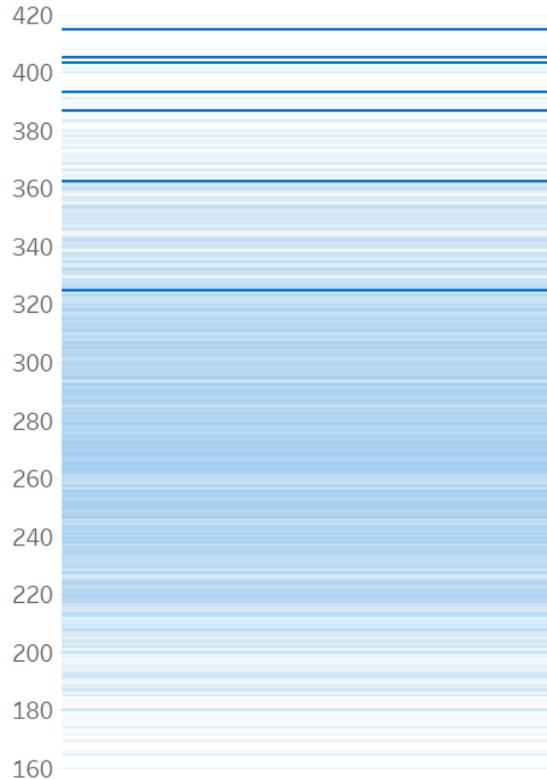


**Wednesday 10
February was the
2nd highest demand
in the last 10 years**

**All weekdays of
week commencing
8 February feature
in the highest 30
demand days of the
last 10 years**

Daily Demands - Winter (mcm/d)

Each line represents the NTS demand for a day
Data for gas years 2011/12 to 2020/21



Highest Demand Days (mcm/d)

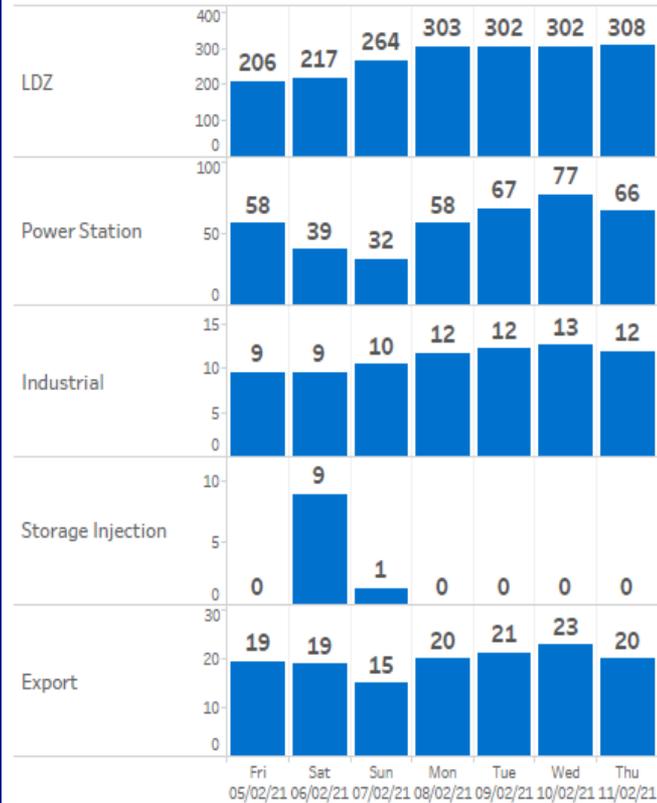
1	01/03/2018	417
2	10/02/2021	415
3	02/02/2012	415
4	08/01/2021	409
5	07/01/2021	408
6	08/02/2012	407
7	11/02/2021	405
8	09/02/2021	404
9	03/02/2012	402
10	23/01/2019	402
11	31/01/2019	401
12	28/02/2018	400
13	01/02/2019	396
14	08/02/2021	394
15	09/02/2012	394
16	27/02/2018	392
17	02/03/2018	391
18	16/01/2013	391
19	06/01/2021	390
20	30/01/2019	389
21	12/12/2012	388
22	23/01/2013	387
23	07/02/2012	387
24	12/02/2021	387
25	04/02/2012	387
26	06/02/2018	385
27	11/12/2017	384
28	10/02/2012	384
29	01/02/2012	384
30	24/01/2019	383

Local Distribution Zones (LDZ) demand was higher on Thursday 11 February

However, demand across the rest of the network was lower

Last 7 days

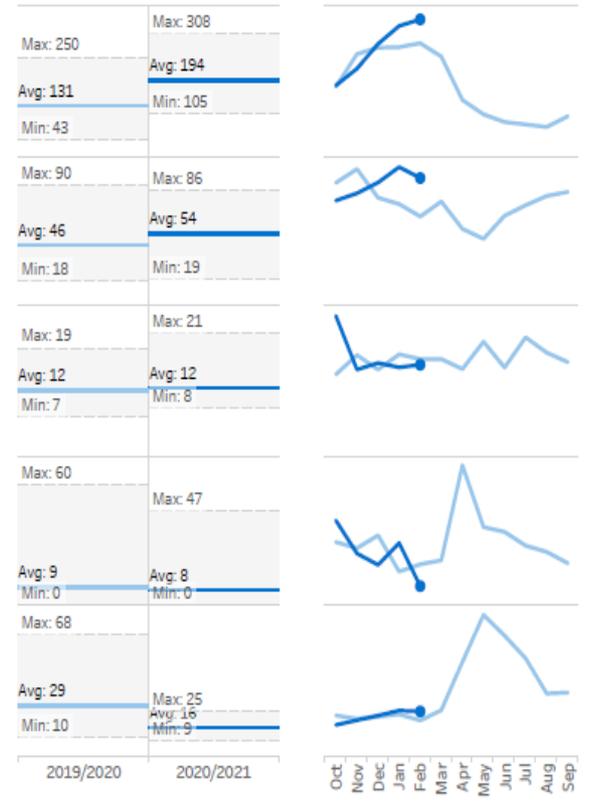
End of day values (mcm)



All values shown are volume in millions of cubic metres per day (mcm/d)
 Previous year data is shown for the equivalent time period from the start of the gas year (01 Oct) to latest data (11 Feb)

Gas year to date vs previous year

Range and mean of end of day (mcm) Monthly average end of day

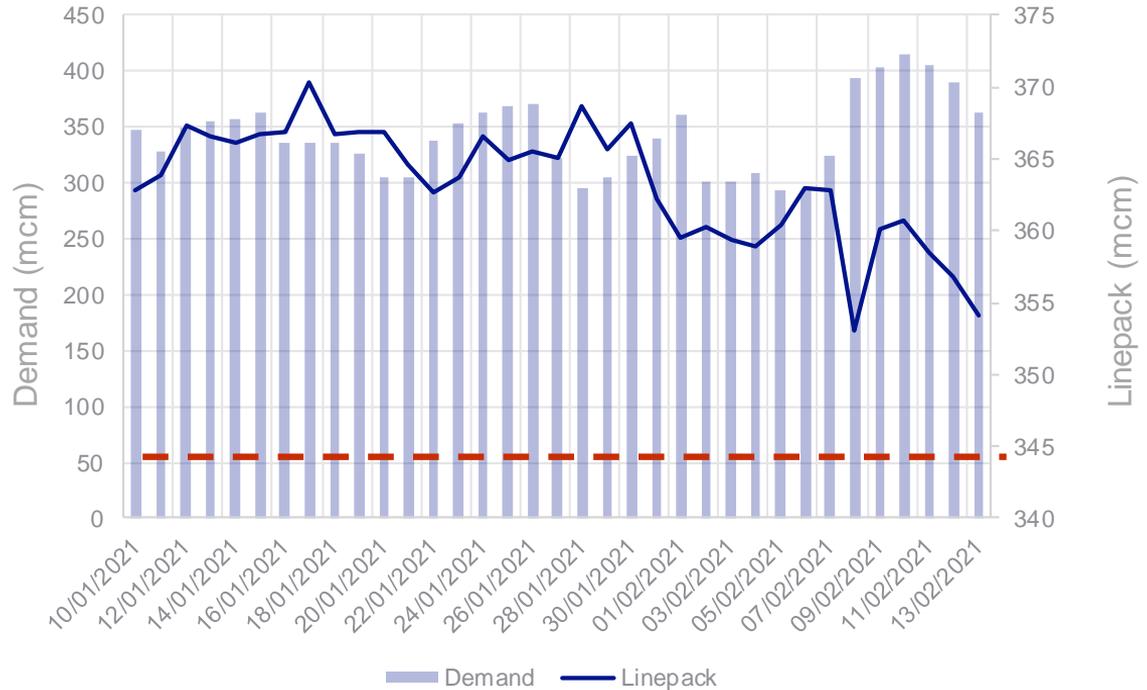


■ 2020/2021
 ■ 2019/2020

Linepack run up to start of week

Linepack level was kept high enough to allow for larger swings during colder weather

Large loss on the 7th meant it was important to build stock the next gas day



7th Feb – Largest Linepack Loss

05:00 System Opened 8mcm heavy

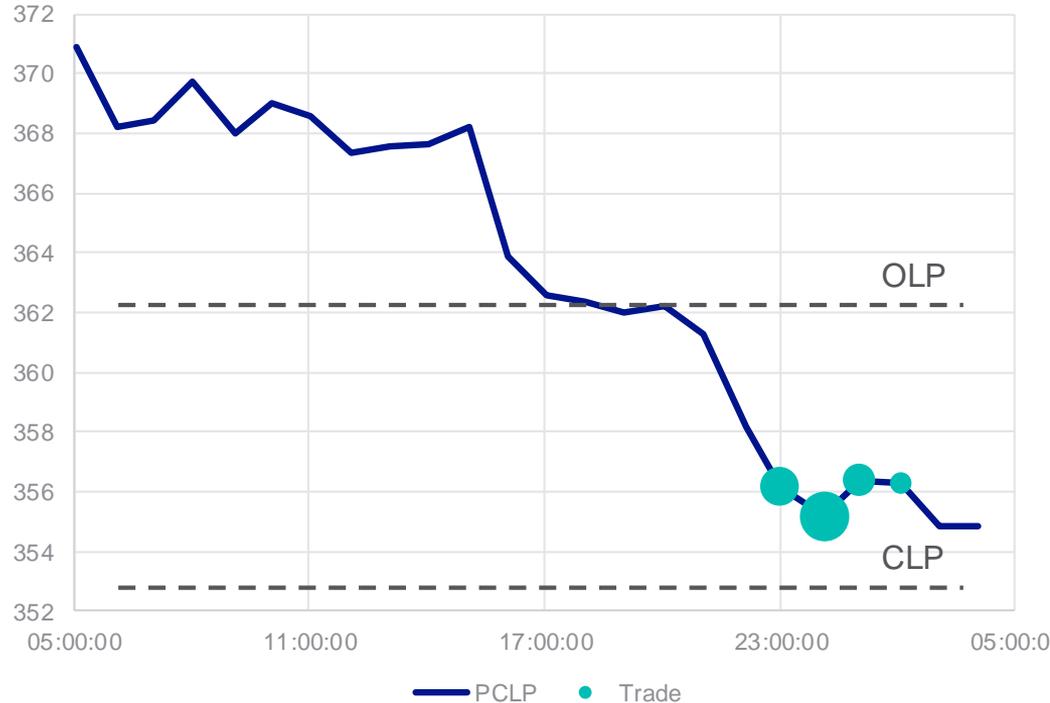
16:00 System Balanced

23:00: Residual Balancing actions required:
Storage Withdrawal reduced
Beach Supplies reduced

SMPB set at 58p/thm (7p/thm higher than
SAP and 4p/thm above day ahead prices)

00:00: Limited response from the market
Small Storage Withdrawal and LNG increases

Demand on this day was lower than forecast
Loss of 9.73mcm



8th Feb – Recovering Linepack

05:00 Linepack opened at 353.1mcm

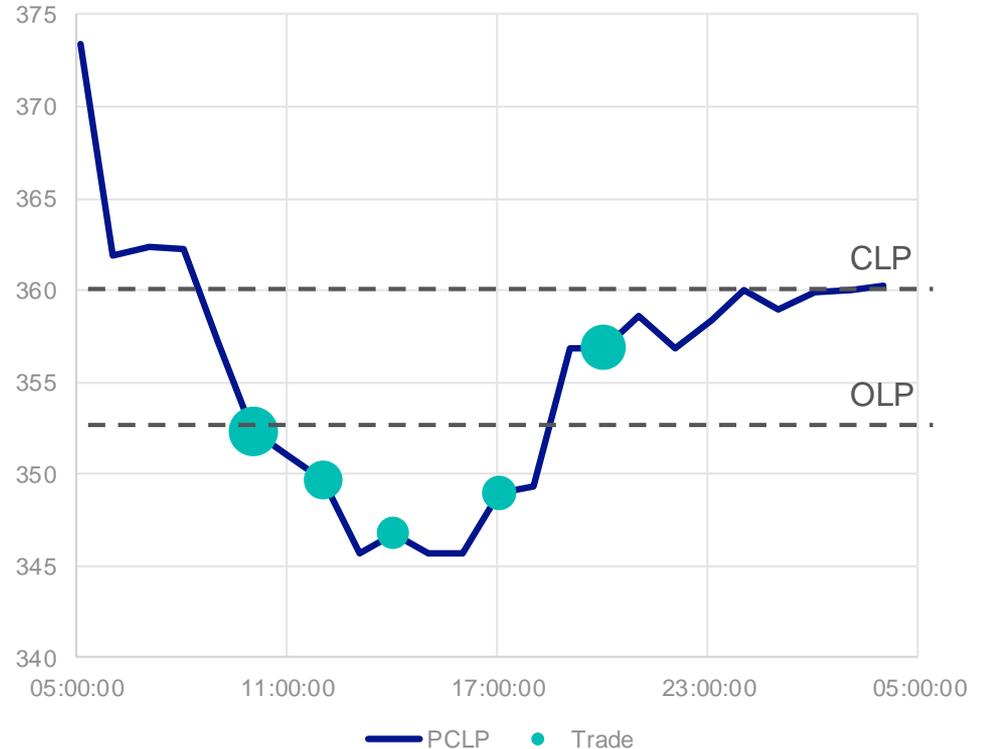
Offshore issues meant that terminal supplies reduced by 16mcm. In addition storage withdrawal reduced and DN demand increased

**Requirement to recover linepack during the day mean actions taken early on in the day:
10:00, 12:00, 14:00, 17:00**

Reaction in storage withdrawal, plus a decreased in DN forecast

23:00 no further actions required

Linepack closed at 360.1mcm, a gain of 7



10th Feb – Highest Demand Day

05:00: Linepack opened at 360.7mcm

System opened at 20.2mcm heavy

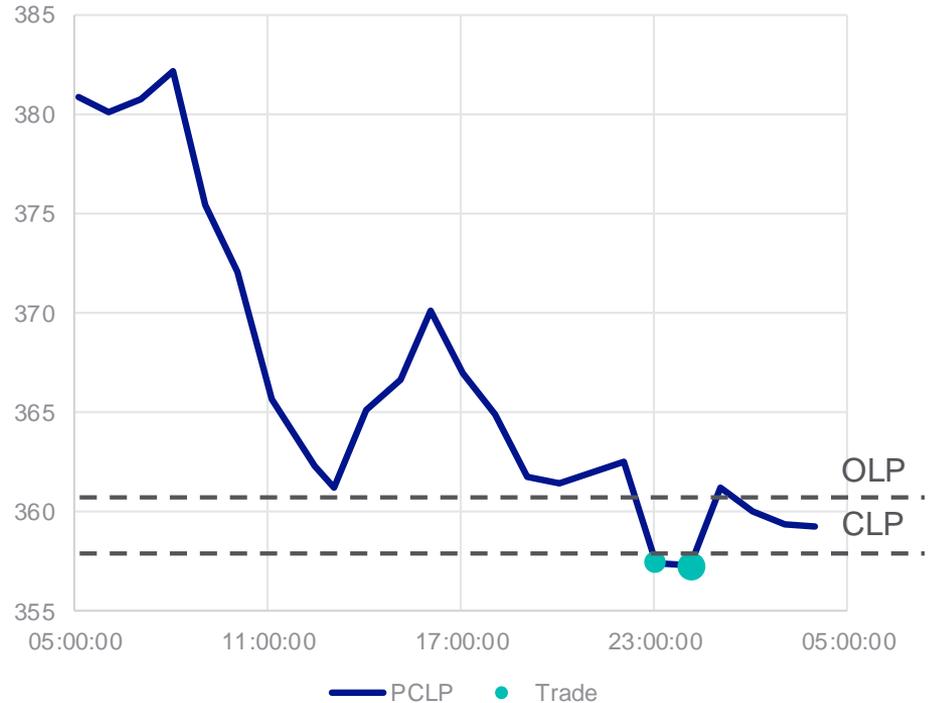
12:00 System balance close to opening

Storage Withdrawal & Barrow Reductions
DN & CCGT increases

23:00 Some Balancing actions taken

Storage Withdrawal and Grain reductions

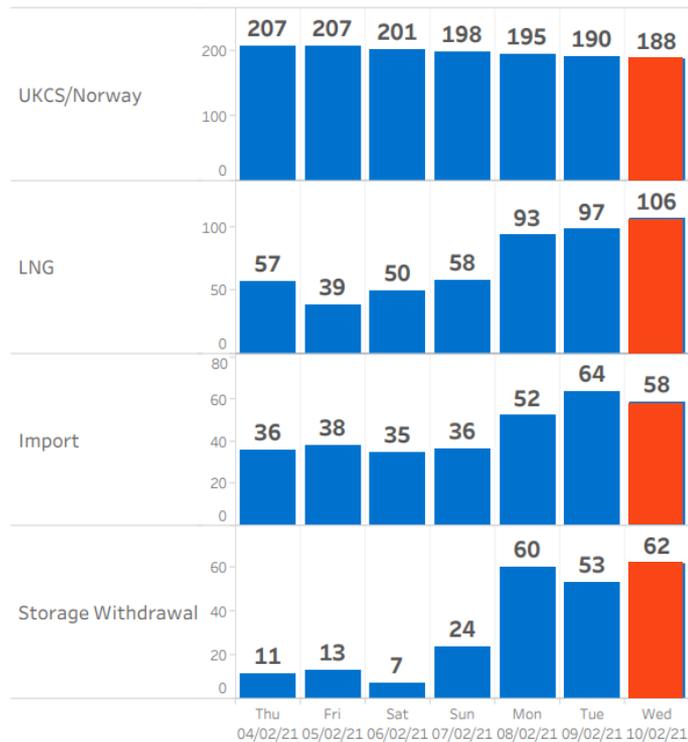
Storage withdrawal reacted to balancing actions, with linepack closing at 358.46, a loss of 2.26mcm



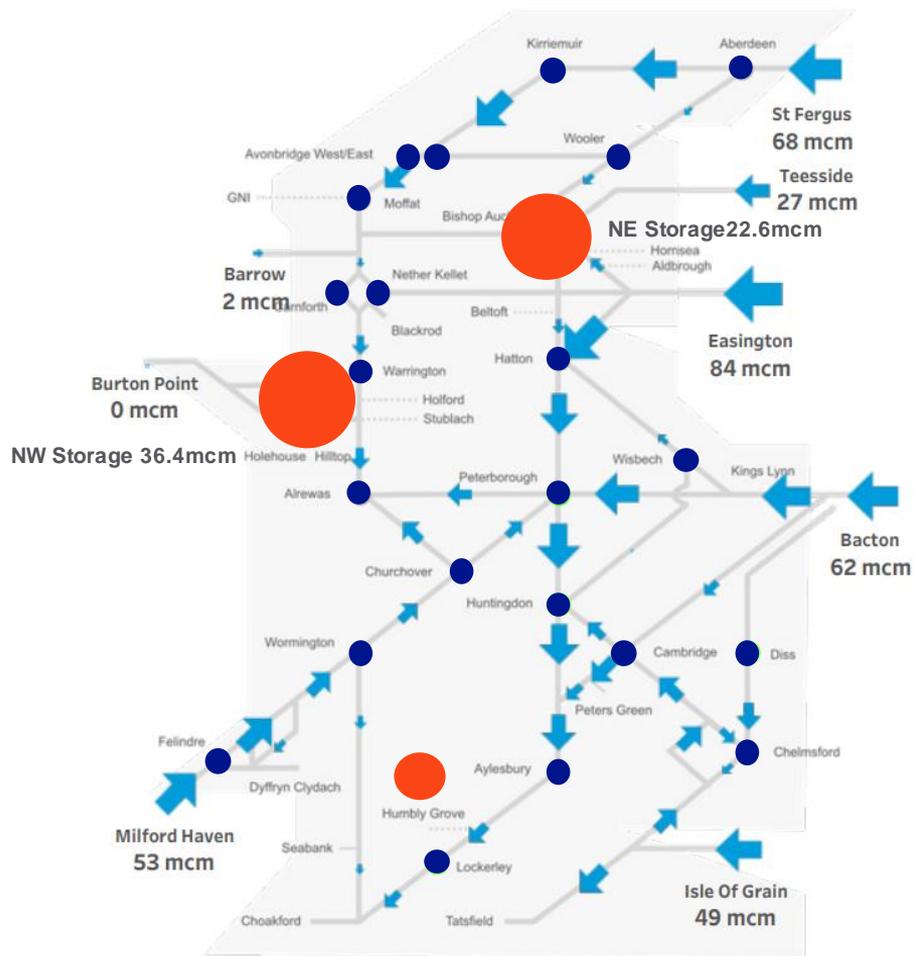
10th - Supply

Last 7 days

End of day values (mcm)



All values shown are volume in millions of cubic metres per day (mcm/d)
 Previous year data is shown for the equivalent time period from the start of the gas year



Intra Day Summary

Opening Linepack

360.7 mcm

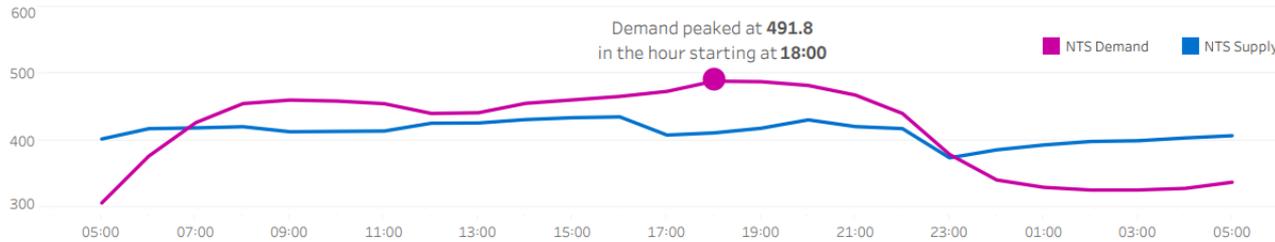
Linepack Change

-2.3 mcm

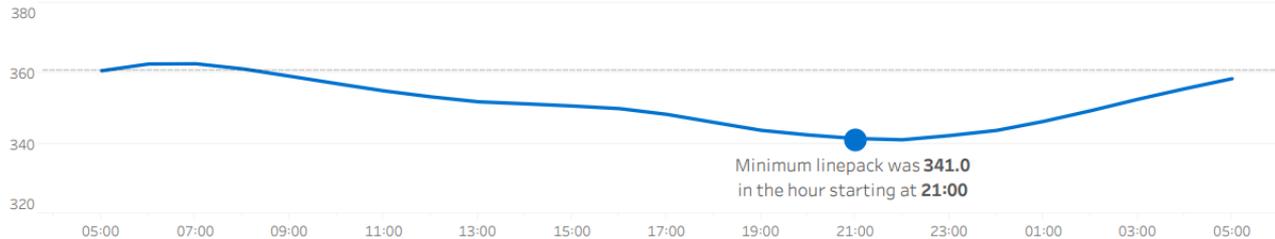
Linepack Swing

19.7 mcm

Supply and Demand (mcm/d)



Linepack (mcm)



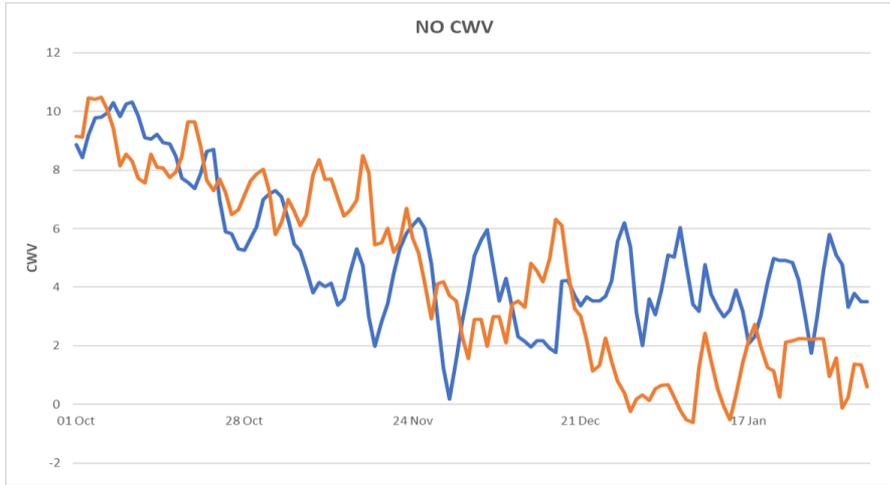
Note that the trend charts above show the value on each hour. Values will vary within each hour.



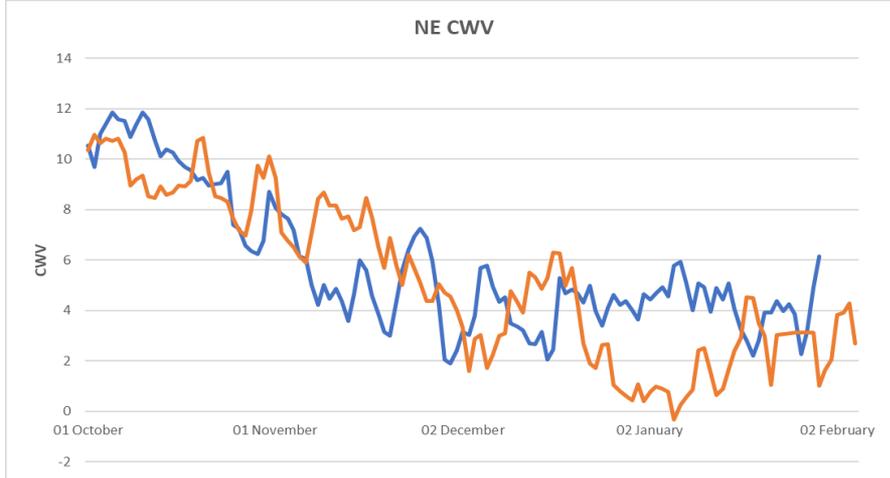
Gas Ops Forum

25th February 2021

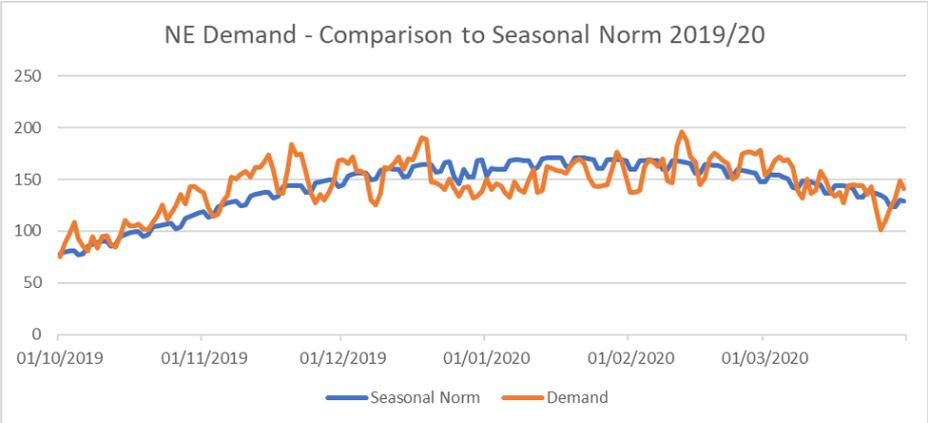




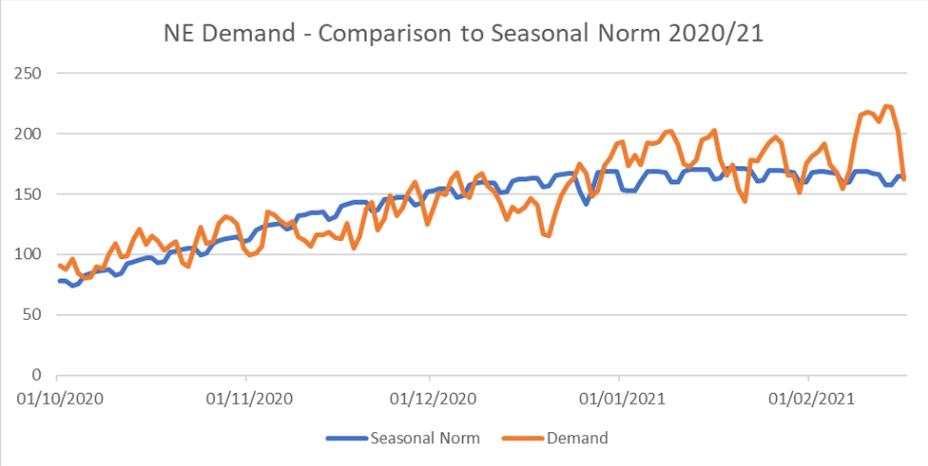
Late December and early January saw a significantly lower CWV than the previous winter, in the North and North East LDZ's



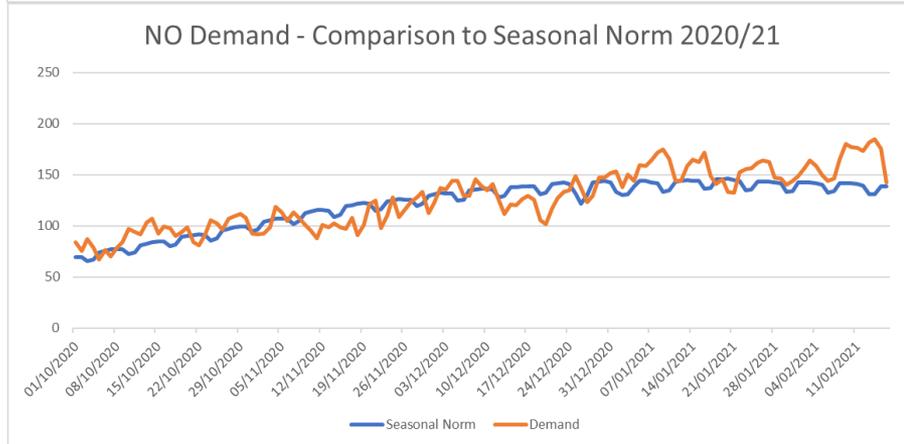
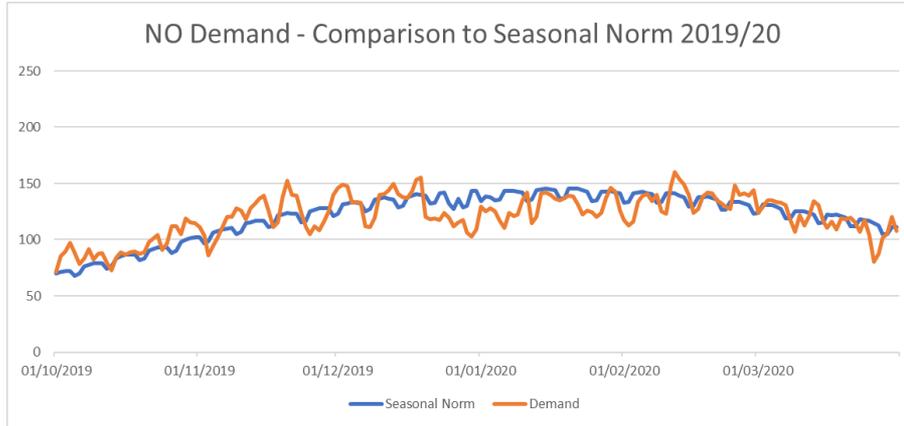
NE Demand – Comparison to Seasonal Norm



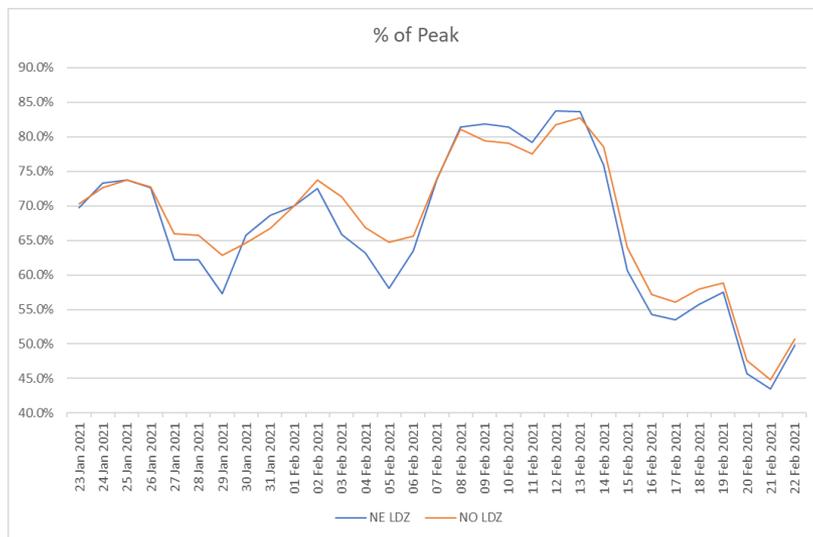
January’s demand this winter has been higher than the seasonal norm, for both the North and North East LDZ’s



NO Demand – Comparison to Seasonal Norm



North East						North				
GasDay	Total Demand	TSL Demand (no VLDMC or Indus)	13:00 Forecast	00:00 Forecast Tmrow	% of peak	Total Demand	TSL Demand (no VLDMC)	13:00 Forecast	00:00 Forecast Tmrow	% of peak
15 Feb 2021	14.47	13.72	15.10	12.40	60.6%	12.73	11.75	12.70	10.70	64.0%
14 Feb 2021	18.13	17.36	17.70	14.90	75.9%	15.62	14.64	13.70	12.80	78.5%
13 Feb 2021	19.98	19.21	19.00	17.70	83.7%	16.45	15.42	14.80	13.80	82.7%
12 Feb 2021	20.00	19.23	18.90	19.30	83.8%	16.27	15.40	15.20	15.00	81.8%
11 Feb 2021	18.92	18.15	18.70	18.80	79.2%	15.42	14.65	15.60	15.00	77.5%
10 Feb 2021	19.43	18.66	19.20	18.60	81.4%	15.74	14.97	15.60	15.10	79.1%
09 Feb 2021	19.55	18.78	19.90	19.10	81.9%	15.80	15.06	15.80	15.40	79.4%



NTS peak day 10th February

NGN peak day 13th February

Control Room Forecasts - 10th February 2021

Demand Intake	Alarms / Faults	Offtakes / Reg Sites	Planned Work / NROs	SCADA Telemetry	Outstanding Issues							
▼ YO												
Intake / Demand	13:00 Y'day (D+1)	16:00 Y'day (D+1)	00:00 Y'day (D+1)	10:00 Today (D)	13:00 Today (D)	16:00 Today (D)	21:00 Today (D)	00:00 Today (D)	Actual	13:00 T'mrw (D-1)	16:00 T'mrw (D-1)	00:00 T'mrw (D-1)
TSL Demand	19.20	19.20	19.10	19.10	19.10	18.90	18.70	18.60	18.66	18.70	18.70	18.60
VLDMC	0.70	0.70	0.70	0.70	0.75	0.75	0.75	0.75	0.77	0.75	0.75	0.75
Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Potential Demand	19.90	19.90	19.80	19.80	19.85	19.65	19.45	19.35	19.43	19.45	19.45	19.35
Network Interruption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net LDZ Demand	19.90	19.90	19.80	19.80	19.85	19.65	19.45	19.35	19.43	19.45	19.45	19.35
Total Intake	19.90	19.90	19.80	19.80	19.85	19.65	19.45	19.35	19.49	19.45	19.45	19.35
Stock Change	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
Forecaster	19.17	19.20	19.13	18.98	18.71	18.66	18.62	18.63		18.68	18.61	18.54

North East LDZ

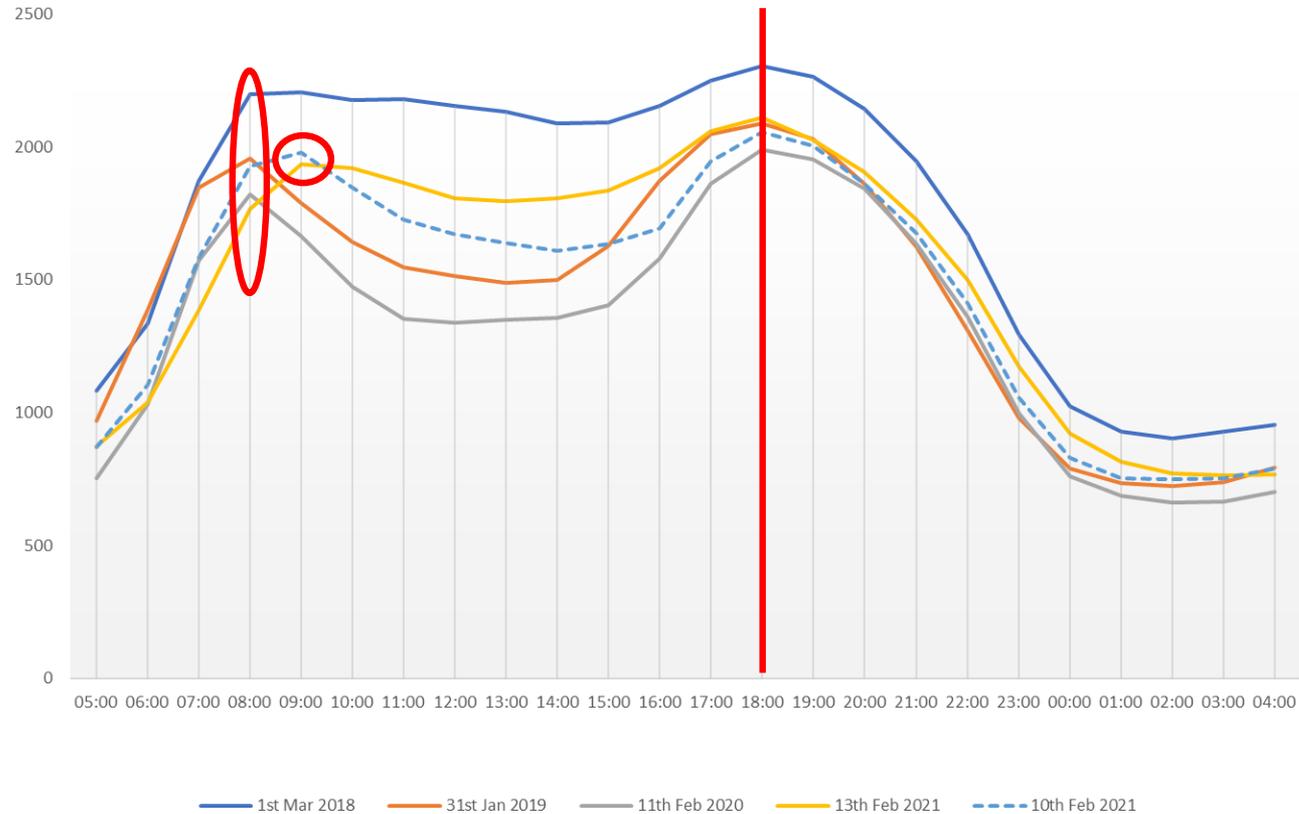
Lighter demand than predicted previous day

North LDZ

Lighter demand than predicted previous day

Demand Intake	Alarms / Faults	Offtakes / Reg Sites	Planned Work / NROs	SCADA Telemetry	Outstanding Issues							
▼ NO												
Intake / Demand	13:00 Y'day (D+1)	16:00 Y'day (D+1)	00:00 Y'day (D+1)	10:00 Today (D)	13:00 Today (D)	16:00 Today (D)	21:00 Today (D)	00:00 Today (D)	Actual	13:00 T'mrw (D-1)	16:00 T'mrw (D-1)	00:00 T'mrw (D-1)
TSL Demand	15.60	15.60	15.40	15.50	15.50	15.30	15.00	15.00	14.97	15.60	15.50	15.10
VLDMC	0.75	0.75	0.70	0.75	0.75	0.75	0.75	0.75	0.77	0.75	0.75	0.75
Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Potential Demand	16.35	16.35	16.10	16.25	16.25	16.05	15.75	15.75	15.74	16.35	16.25	15.85
Network Interruption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net LDZ Demand	16.35	16.35	16.10	16.25	16.25	16.05	15.75	15.75	15.74	16.35	16.25	15.85
Total Intake	16.35	16.35	16.10	16.25	16.25	16.05	15.75	15.75	15.74	16.35	16.25	15.85
Stock Change	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forecaster	15.60	15.52	15.42	15.43	15.44	15.26	14.98	14.95		15.57	15.46	15.12

High Demand Day Comparisons



- Evening peaks – no change
- Morning peak shifted to 9am in 2021
- Flatter within day profile for NGN peak day 2021

1 st March 2018	31 st Jan 2019	11 th Feb 2020	10 th Feb 2021 *	13 th Feb 2021**
42 mcm	33 mcm	32 mcm	35 mcm	36 mcm

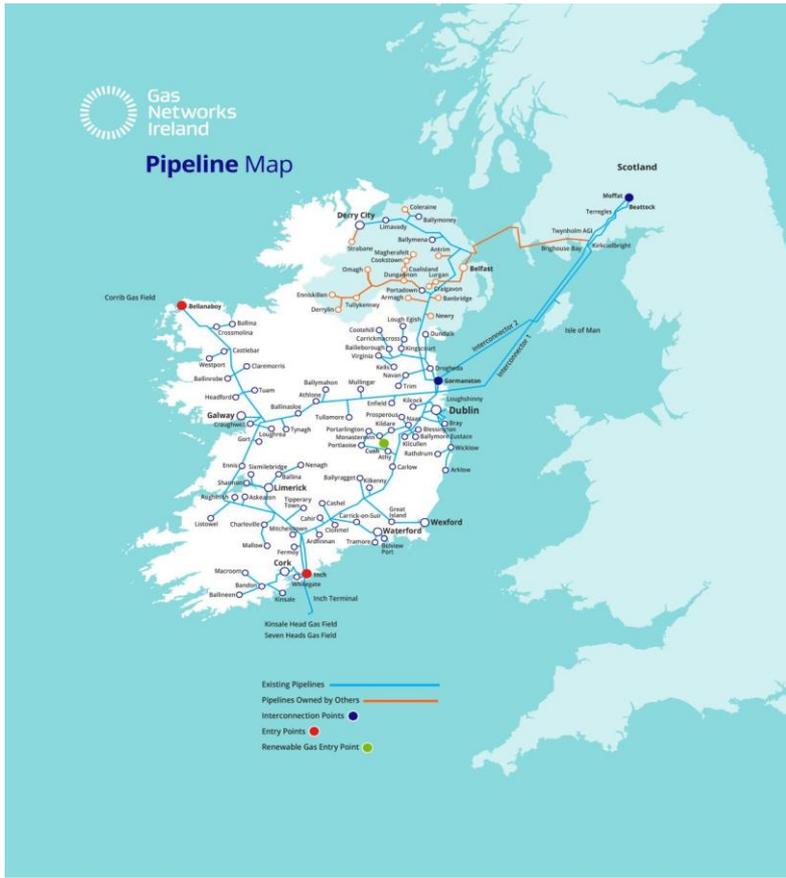


Gas
Networks
Ireland

GNI Presentation at National Grid Gas Operations Forum Q1 2021

25th February
2021

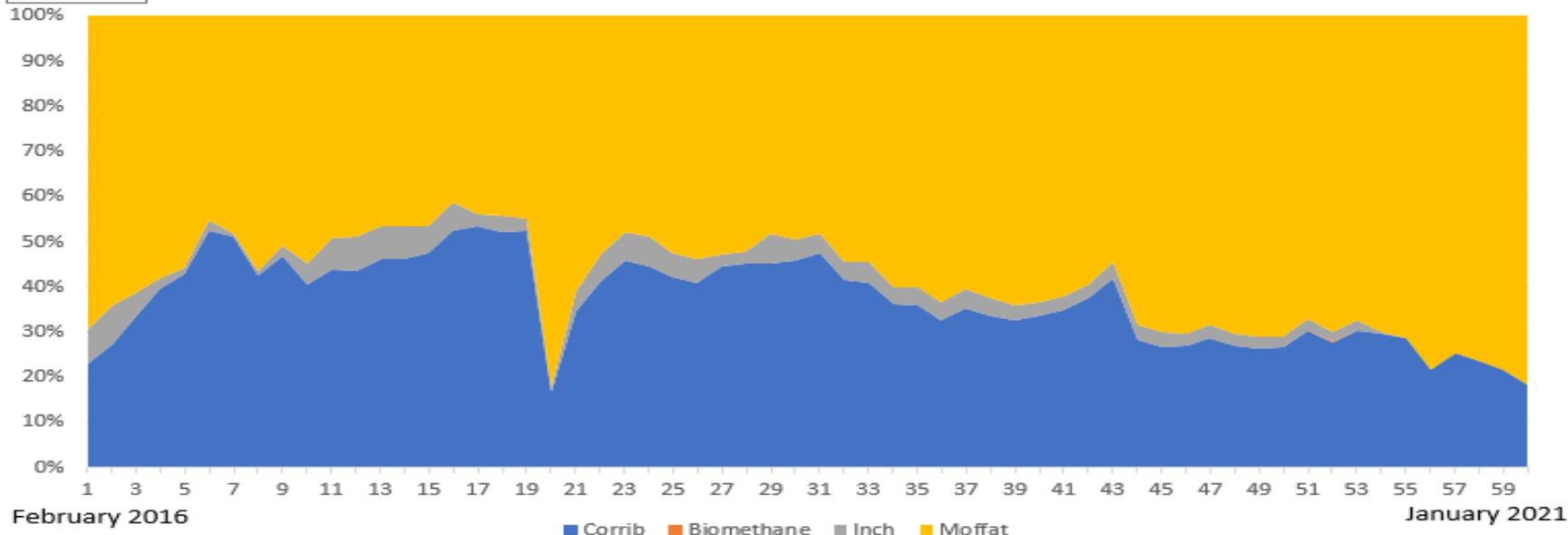
GNI network overview



Entry Points	Exit points
Moffat	Twynholm
Corrib	Isle of Man
	ROI

Proportion of Gas from Entry Sources (Monthly)

Chart Area



Preparatory Work for February 10th High-Demand day

Grid Control Actions

- The main control room was used for both shifts on the day (backup control room is being utilised since Covid arrived last year) as the location has better access in case of snow-conditions.
- Hotel rooms were reserved within walking distance to the main control room to mitigate risk of road conditions.
- The Grid Control 4x4 jeep was with the on-call Engineer for the week should it be required to transport shift team members to and from work.
- Linepack increased on the ROI high-pressure ringmain. Raised from its normal level (65 Bar) up to 67 Bar in anticipation of higher demand.

February 10th high demand day

February 10th

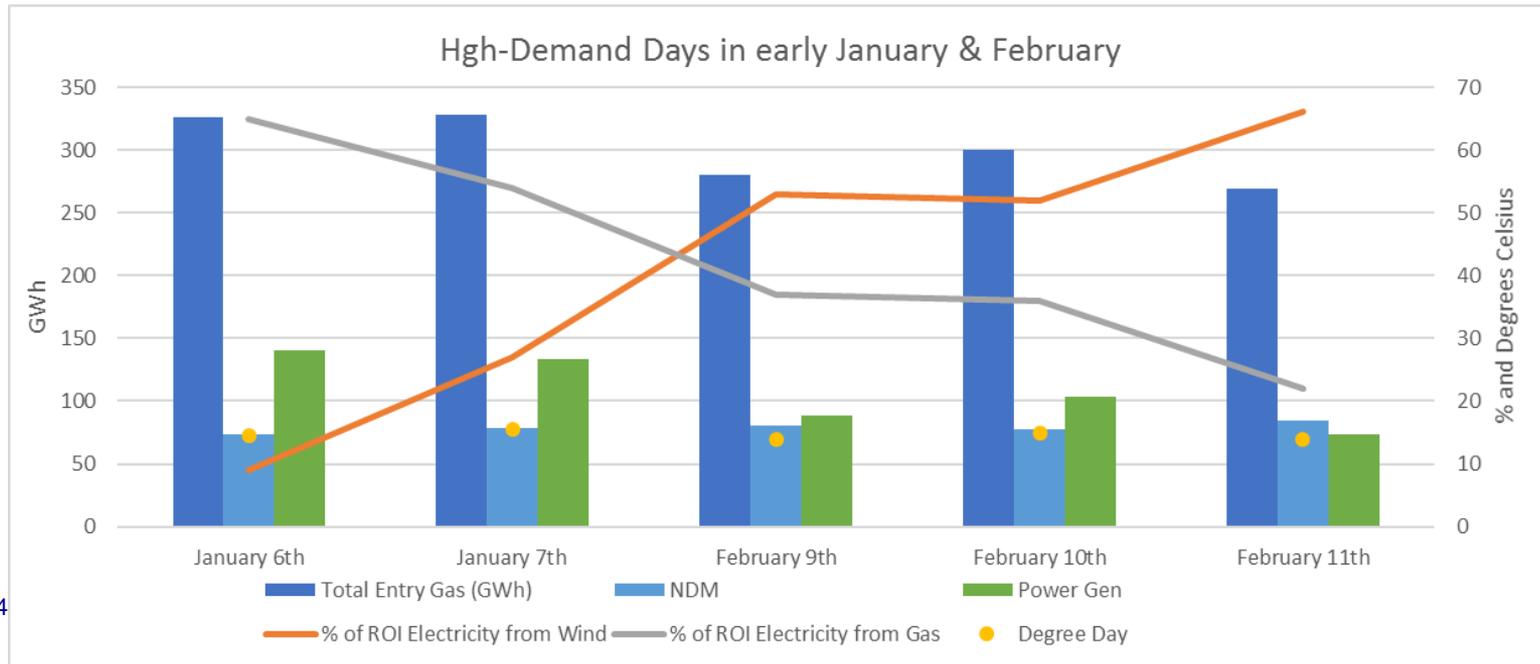
- 300.6 GWh (27.3 mcm) was the Entry Gas on February 10th of which 248 GWh (c. 23 mcm) was supplied from Moffat.
- 82.5% of our total supply came from Moffat which highlights GNI's increasing reliance on Moffat on high-demand days.

Comparison to recent winters

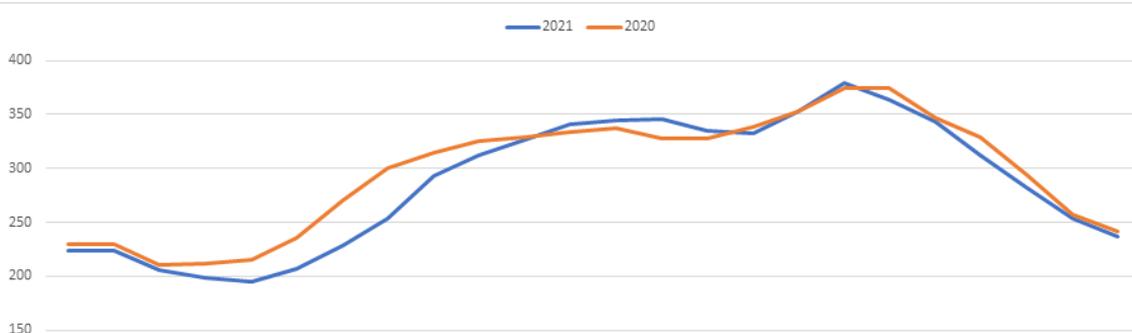
- Interestingly, the highest daily demand over the last four years until this winter was only 301 GWh. The Beast from the East's high-demand day in 2018 was 278 GWh.

Early January 2021 versus February 10th

- January 6th, 7th and 8th 2021 had gas demand of 326, 328 and 332 GWh respectively.
- February 9th, 10th and 11th would be comparable in terms of temperature / degree days to the January cold snap so non-daily metered (residential) demand was fairly equal.
- However, Power Generation demand was offset by high wind giving only 280, 300 and 269 GWh total Entry gas.

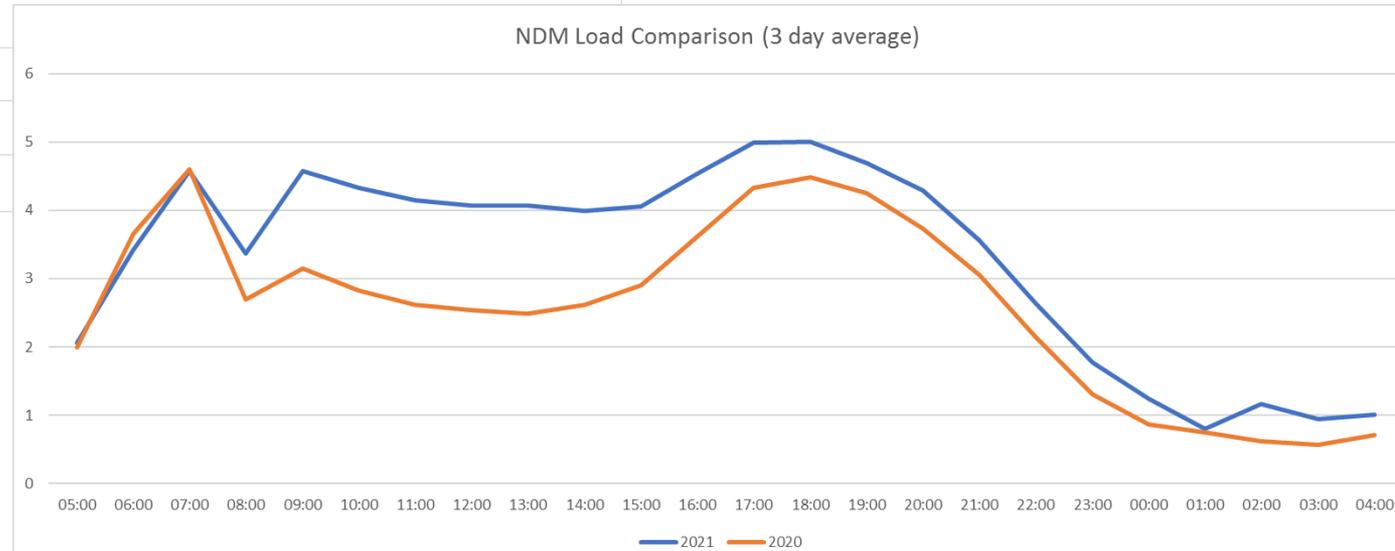


Impacts of Covid, Working from Home



- LDM Power Generation hourly gas demand comparing January 2020 to 2021.
- Morning rise in demand appears a bit slower this year.
- 10:30 to 14:30 is the only part of the 24 hours where 2021 demand exceeds 2020.

- NDM demand appears to have a more even daytime usage, less of a trough due to people working at home.



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Interesting Days



Joshua Bates
Operational Liaison & Business
Delivery Manager

nationalgrid



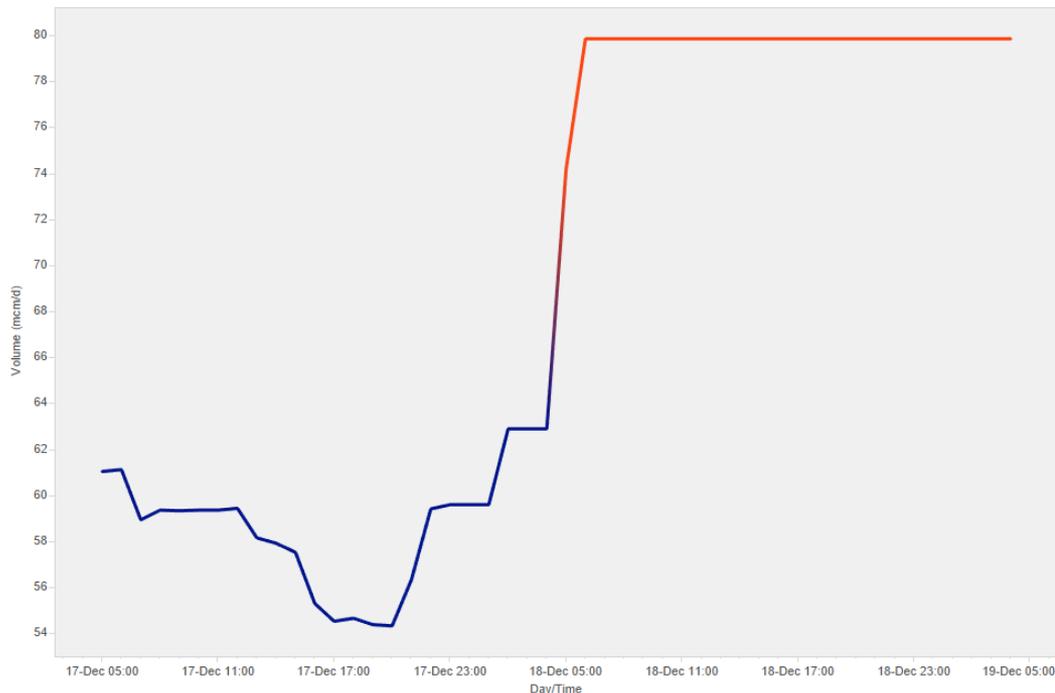
December 18th – Scottish Capacity Restrictions

What was unusual about this day?

- **St Fergus Interruptible Capacity Scaled back during the day**

Time	Action
18/12/2020 06:55	National Grid is Scaling Back interruptible capacity at St Fergus from 18/12/2020. The ICF is 0
18/12/2020 20:46	National Grid has restored interruptible capacity at StFergus for Gas Day 18/12/2020 effective from 21:00hrs. The ICF is 1

Gas Day Transition: 17th to 18th Dec 2020



Graph shows the actual flow (Blue) for Gas Day 17th December 2020 leading up to the latest outlook (Orange) using the latest notifications at midnight (18th December at 00:00AM) for the Gas Day 18th December 2020

National Grid

Initial notifications for 18th December:

St Fergus 79mcm/d
NTS Balance +36mcm

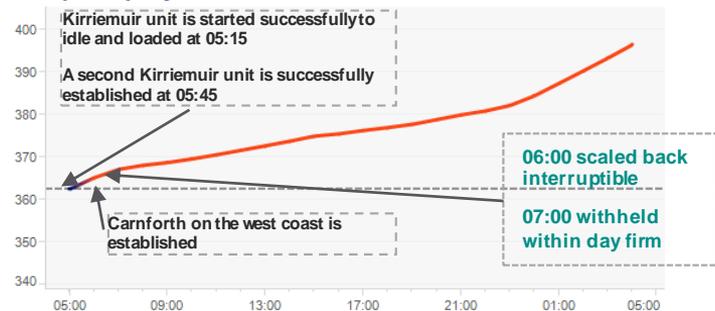
Asset Outlook:

- Avonbridge operational
- Risk of starting compression too early when flows are lower
- Assessment of compression

At this point in time no decision made to scaleback

- Notifications subject to change
- Need to understand what physical flow will materialise
- How and when the NTS balance will be addressed

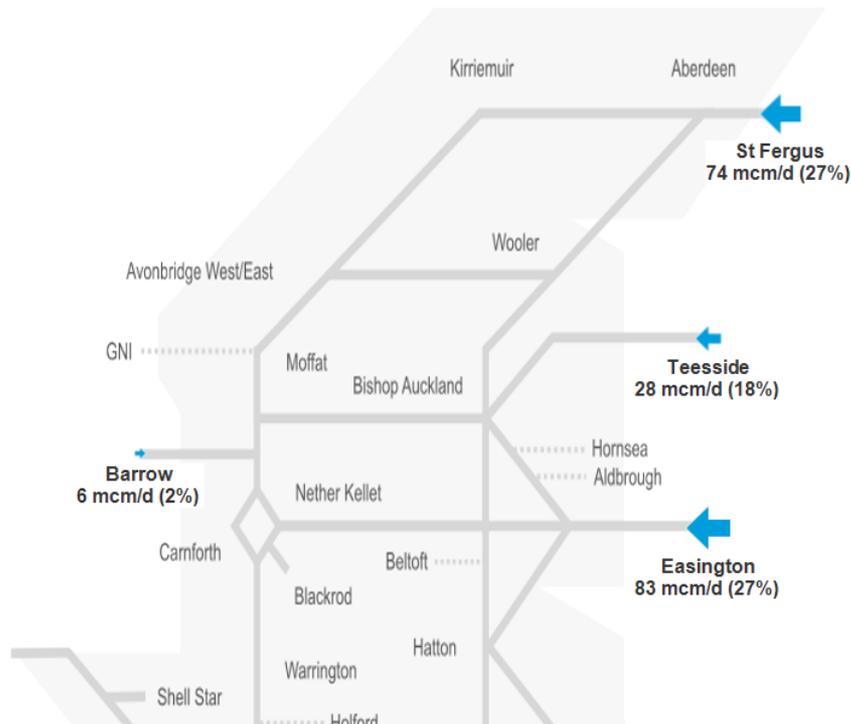
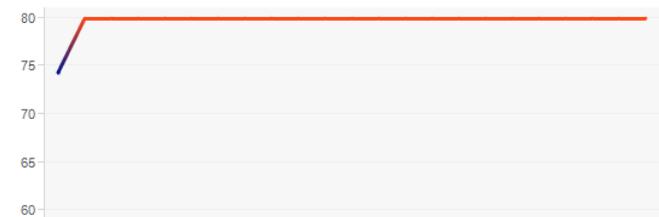
Linepack projection



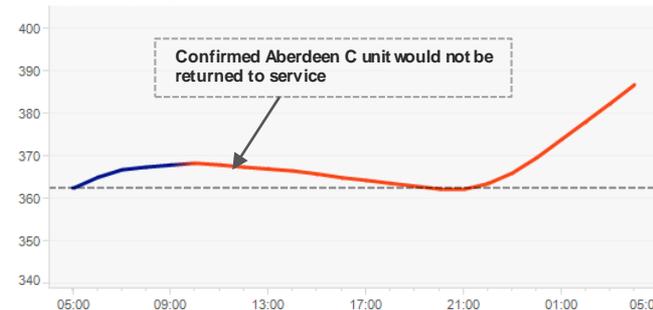
St Fergus Pressure



Flow/Notification



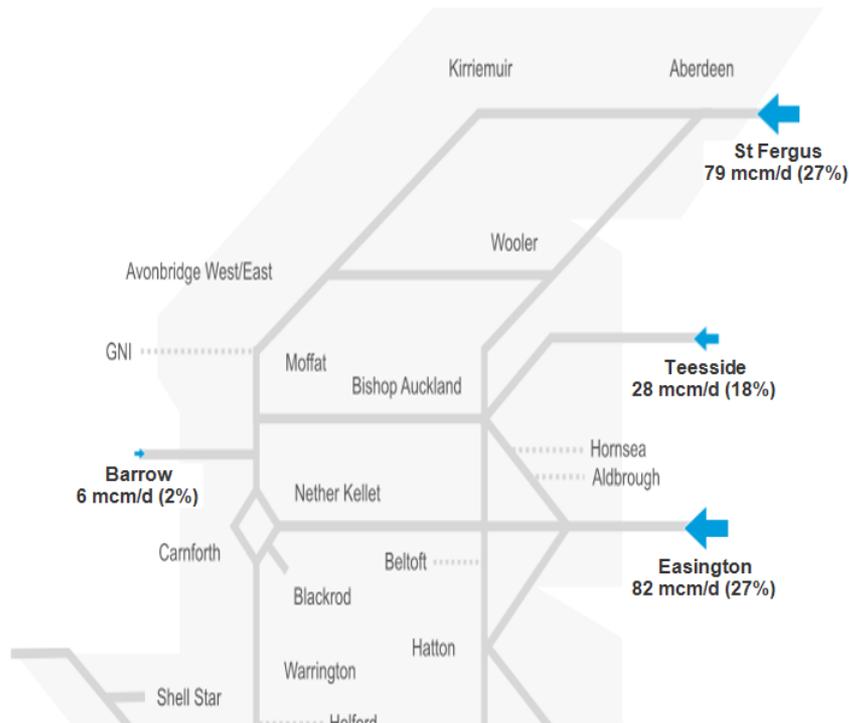
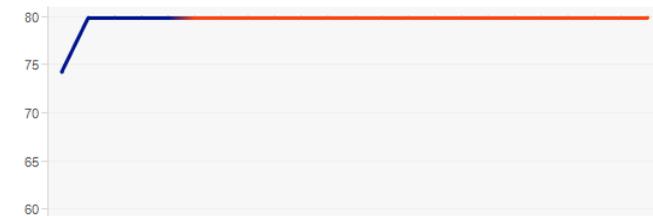
Linepack projection



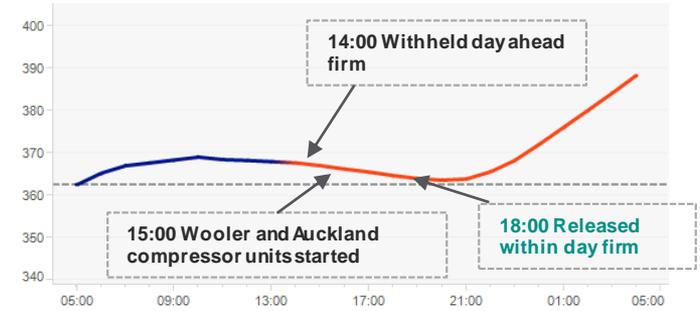
St Fergus Pressure



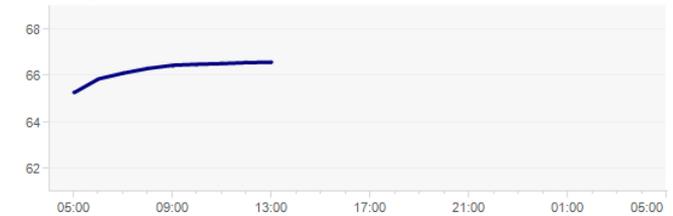
Flow/Notification



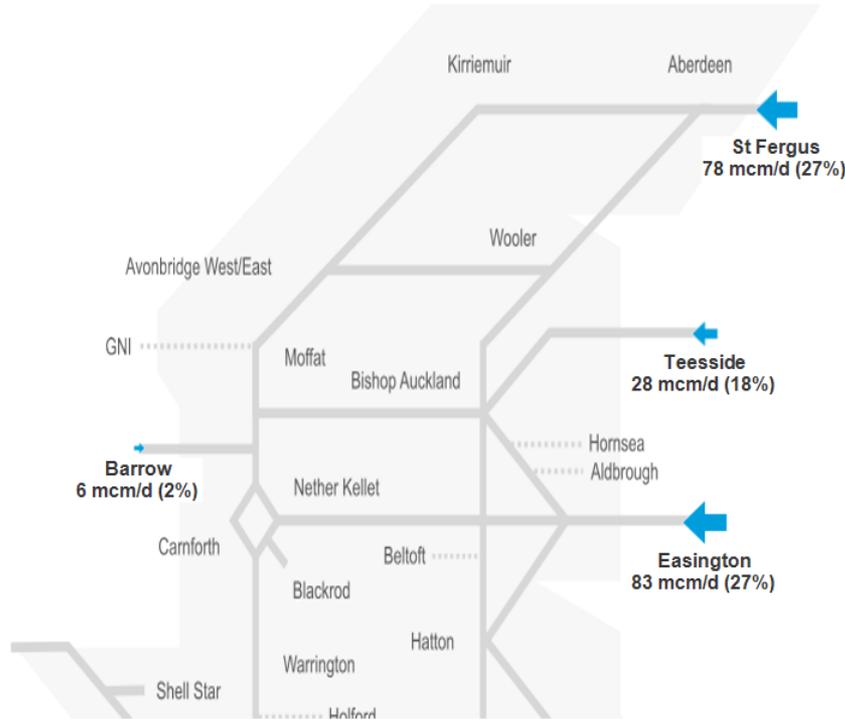
Linepack projection

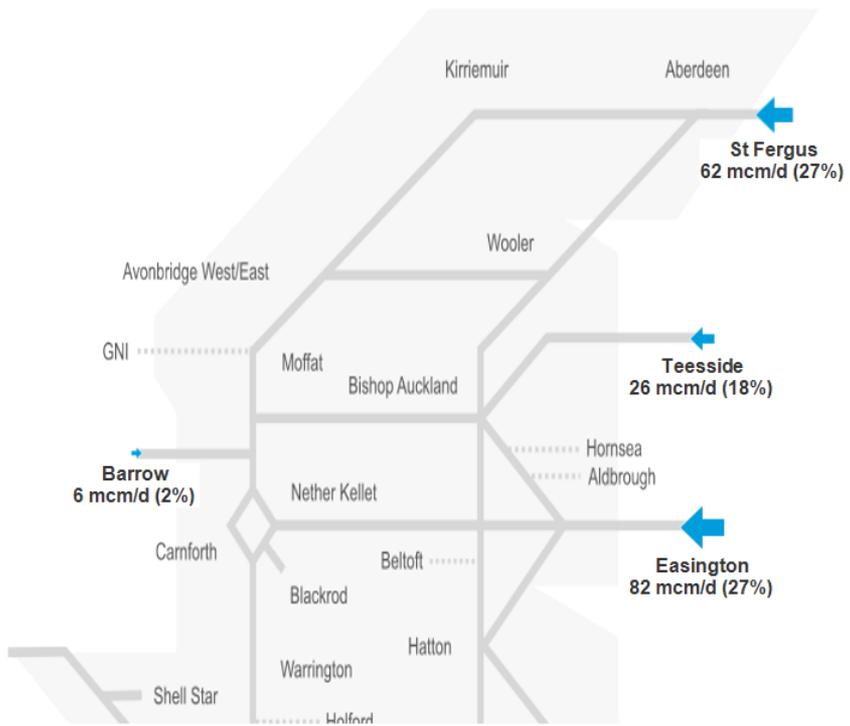


St Fergus Pressure



Flow/Notification

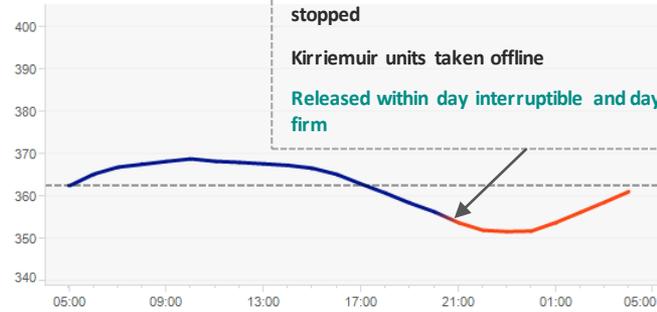




NTS Balance Forecast

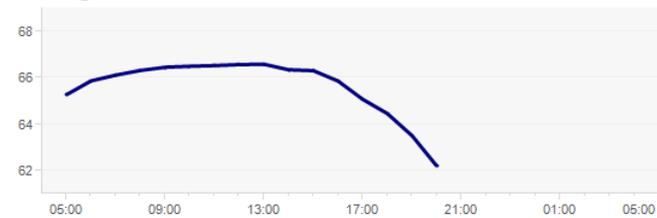
-1 mcm

Linepack projection



20:00 Wooler and Auckland units slowed and stopped
 Kirriemuir units taken offline
 Released within day interruptible and day ahead firm

St Fergus Pressure



Flow/Notification



February 11th – Milford Locationals

What was unusual about this day?

- **Bids invited for locational sales at Milford**
- **No bids accepted**

Time	Action
11/02/2021 18:03	National Grid has a requirement to sell locational gas. Shippers are requested to post bids on the OCM locational market at (Milford Haven and EXIT ZONE E17. NTS Exit Zones details can be found on https://www.nationalgrid.com/uk/gas-transmission/data-and-operations/constraint-management
12/02/2021 00:27	National Grid no longer has a requirement to sell locational gas.

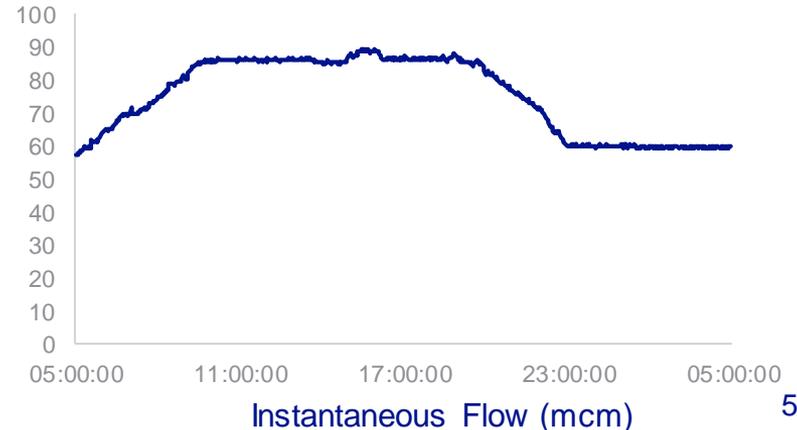
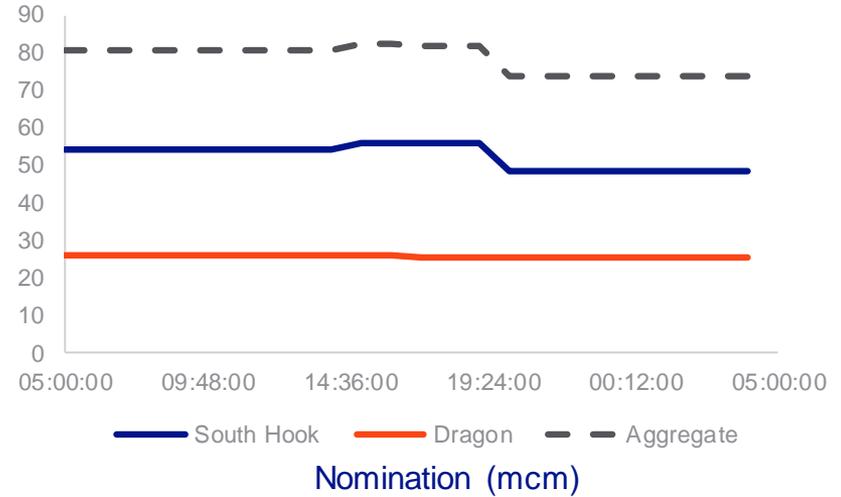
Milford Actions

Combined Flows totalling 81 mcm initially

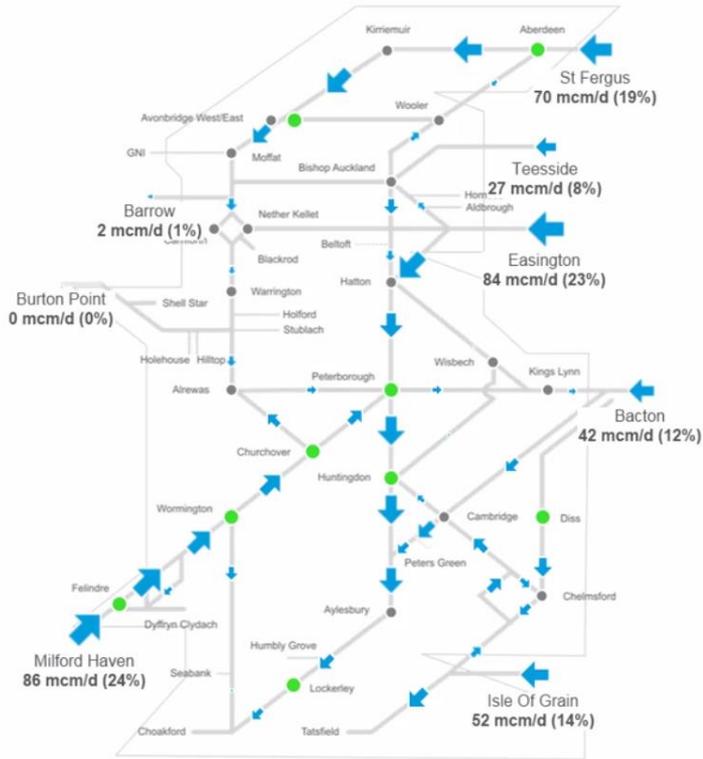
Locational bids invited from 18:00
Initially no response

Repeated at 18:40 with 3 bids put forward

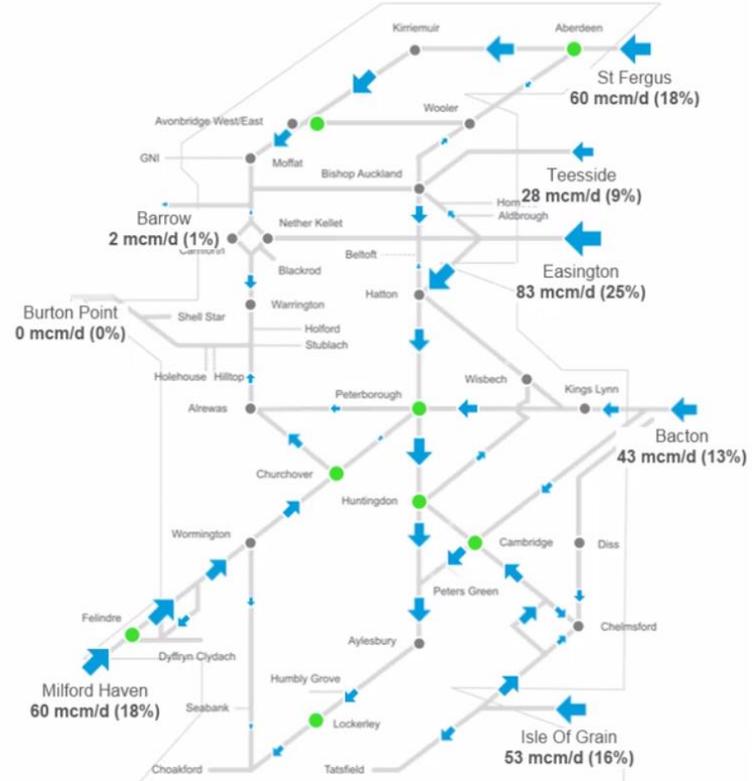
At 20:00 South Hook reduced EOD by 8mcm which negated the need to accept bids



Supply Pattern



11:00



00:00

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Gemini System Enhancements: User Trials



Sarah Carrington
Comms & Engagement Lead

nationalgrid



GSE Customer Survey – 29th January

GSE Customer Survey being released on 29th January

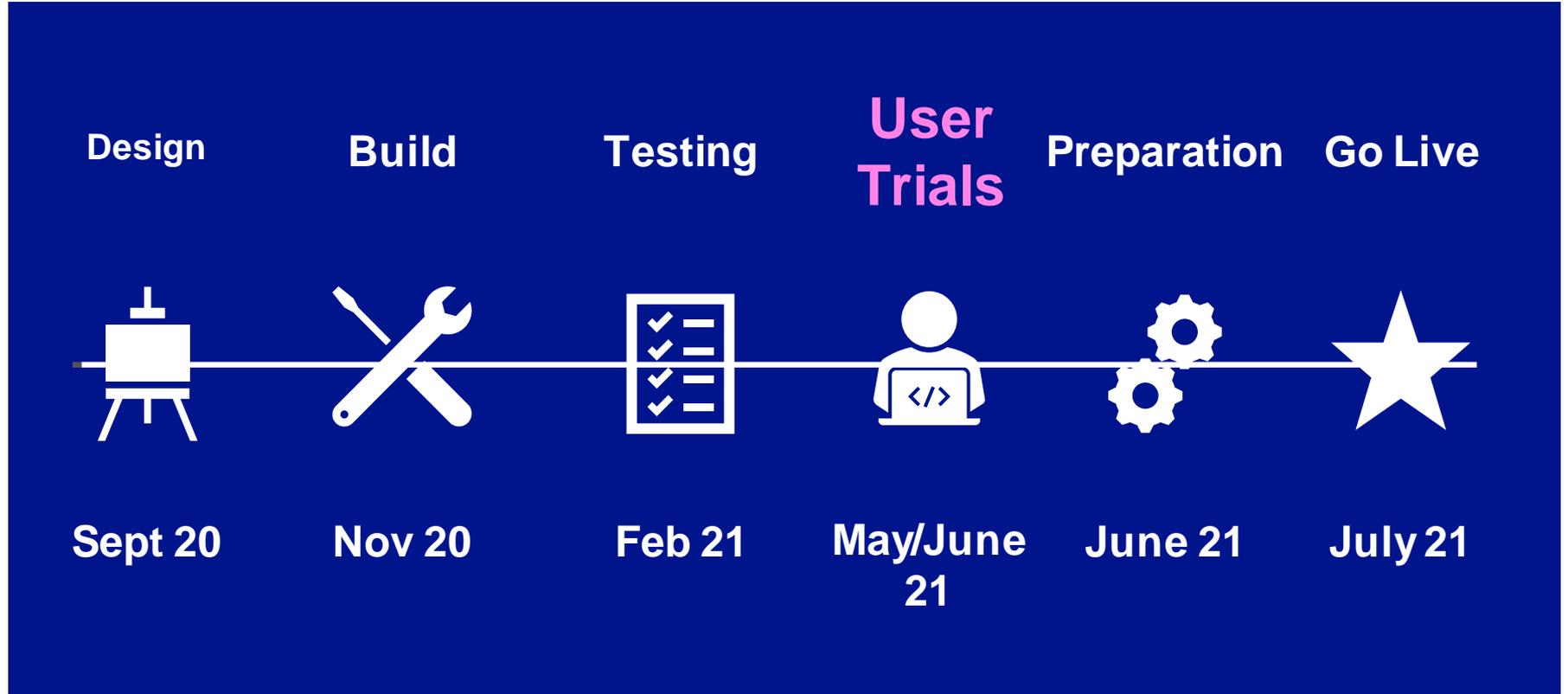
Purpose – to help measure potential risks and customer satisfaction

Six questions on the 29th January; same 6 questions released 6 weeks later go live

Completion of the survey by the shipper community would be very much appreciated

Thank you

GSE Timeline



GSE User Trials

Opportunity for shippers to identify and resolve GSE related issues prior to implementation

Familiarisation with new features and functions

Xoserve have prepared a comprehensive plan

User Trials 1st – 25th June

GSE User Trials Plan – in detail

User Trials Registration 10th – 26th March

Briefing Sessions 3rd – 28th May

Connectivity Testing to UT Environment 17th – 21st May

User Trials 1st – 25th June

GSE User Trials – Registration 10th – 26th March

Event	Duration	Start	Finish
Change Managers Meeting	1 day	Wed 10/03/21	Wed 10/03/21
Change Pack	1 day	Mon 15/03/21	Mon 15/03/21
Xoserve Email	1 day	Mon 15/03/21	Mon 15/03/21
NG Shipper Email	1 day	Mon 15/03/21	Mon 15/03/21
Xoserve Website News Item	1 day	Mon 15/03/21	Mon 15/03/21
Shippers apply for registration	13 days	Wed 10/03/21	Fri 26/03/21

GSE Next Steps & Contact Details

Useful sources of information:

- [Xoserve Change Pack issued 16th November](#)
- [Gemini External Screen Pack](#)
- [Gemini & Gemini Exit API Specification](#)

The shipper community will be kept informed of GSE progress through the Gas Ops Forum, Email and bespoke communications

Project Mailbox : box.Xoserve.GeminiSystemEnhancements@Xoserve.com (use for UT Registration)

National Grid

Ian Bennett
Project and Change Delivery Manager
ian.Bennett1@nationalgrid.com

Xoserve

Nicola Patmore
Project Manager
Nicola.Patmore@xoserve.com

If you require further information please contact the team or the project mailbox

Gas
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Future Capacity and Balancing Systems and Services



Rachel Hinsley
Senior Codes Change Lead

nationalgrid



Project introduction

- The network balancing and capacity systems and services are currently **procured by NGG** through a third party, Xoserve.
- Xoserve manage and operate **Gemini** on our behalf. Gemini is the main system NGG uses to **communicate commercial information to/from shippers**. This includes, gas flow nominations, energy allocations, capacity auctions and transportation invoicing.
- Over the next 12 months we intend to complete a **Prior Information Notice** (PIN), a **Request for Information** (RFI) and **Request for Proposal** (RFP) to explore who the best party is to deliver and how we can deliver the future capacity and balancing services and system.
- This may help us drive **efficiencies**, introduce **innovation** and **set up for success** for the future.

Project activities and timeframes

PIN

Prior Information Notice

A PIN will be issued to notify of our intention to procure the Capacity and Balancing systems and services.

Those intending to submit responses to the RFI and RFP will be required to register on the Achilles platform.

Issue date: December 2020

Duration: 35 calendar days

RFI

Request for Information

A RFI will be issued to industry to obtain general information about products, services, or suppliers.

Issue date: January 2021

Duration: 28 calendar days

PQQ and RFP

Pre-qualification Questionnaire Request for Proposal

A pre-qualification (PPQ) will be issued to the industry to ensure potential suppliers meet the tendering criteria.

Following the PQQ a RFP will be issued to industry for which any organisations can submit bids to provide the future capacity and balancing systems and services.

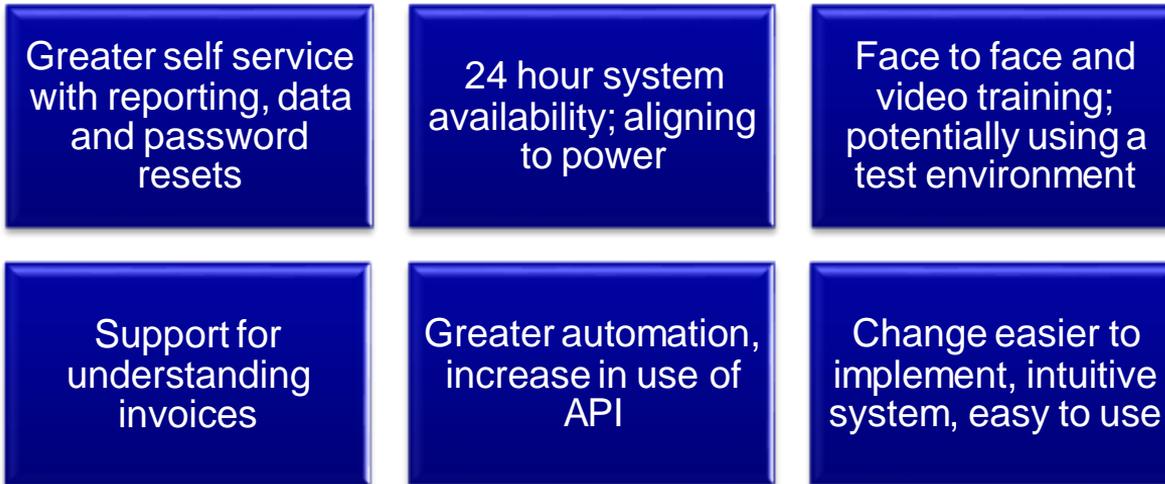
Issue date: PQQ Late March / Early April 2021

Duration: Anticipated completion with contract awarded late October 2021

During this period we will be supporting any parties who wish to engage with us to understand more about the systems and services being procured.

Future Requirements

We held a workshop on 14th January to consider future requirements for a capacity and balancing system and associated services. Future requirements identified include:



We continue to seek feedback from current system users – please complete the survey here:
https://nationalgrid.eu.qualtrics.com/jfe/form/SV_blypqEOnztQuVO5

The survey will be open until 12th March.

Who to contact for additional information

Business Lead	Project Manager	Procurement Lead
Rachel Hinsley	Mark Barnes	Faye Osbourne
Rachel.hinsley1@nationalgrid.com	Mark.Barnes@nationalgrid.com	Faye.Osborn@nationalgrid.com
07811 762440		07808 094 939
To support in discussions regarding the capacity and balancing systems and services		To discuss how to register on the Achilles platform

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Regulatory and Commercial Change Update



Rachel Hinsley
Senior Codes Change Lead

nationalgrid



In-flight projects

Gas Quality Blending	Capacity Access Review	Gas Charging Arrangements
<ul style="list-style-type: none">• National Grid gas quality blending services at NTS entry points as an enduring arrangement• Temporary blending arrangement at Bacton, facilitated by UNC Modification 0714 'Amendment to Network Entry Provision at Bacton Perenco terminal'• IGEM GS(M)R Review – we expect HSE to lead a consultation and impact assessment	<ul style="list-style-type: none">• Project progressing through UNC Review group 0705R• Overruns – Following the implementation of UNC Modification 0716 on 1st October 2020, we have begun monthly reporting on the level of Entry and Exit overruns that are occurring• Signalling and Allocation of Capacity is being considered within the Capacity methodology- shortly to be issued to consultation• Other workstreams include:<ul style="list-style-type: none">• Capacity Products and Auctions• Secondary Capacity Assignments• Review of the Exit Regime	<ul style="list-style-type: none">• October 2020 – implementation of UNC Modification 0678A• Capacity Neutrality Changes – UNC Modification 0748 proposed the removal of two revenue items from the Capacity Neutrality (Within Day and Daily Interruptible Entry Capacity). Implemented 1st January 2020. Currently reviewing reconciliation of period 1st October – 31st December 2020 for Capacity Neutrality.• Managing Inefficient bypass (Shorthaul) – UNC Modification 0728 A/B/C/D. Ofgem minded to preference is 0728B for October 2021. Consultation closed 19th Feb.• Focus on setting October 2021 charges (e.g. updating the FCC)

Customer and Stakeholder Satisfaction Survey

National Grid regularly conducts **customer and stakeholder satisfaction surveys**. At our team level, this **feedback** is an invaluable resource for creating detailed action plans to help us **improve** further.

We review comments as we receive them and will often contact individuals directly to better understand how we can address any concerns raised through the survey. Going forward, we intend to **share more regular updates** on the actions our team is taking based on the feedback received, so you can see how you are directly impacting our ways of working.

We recently provided an update at the UNC Transmission Workgroup – the slides containing details of changes we have made or proposed can be accessed [here](#).

Find Out More

- We issue a quarterly **newsletter** with a summary of in-flight changes – sign up by emailing box.gsoconsultations@nationalgrid.com
- The Gas Market Delivery team have a **webpage** with information on all in-flight projects here: [Commercial and Regulatory change | National Grid Gas](#)
- We issue a summary document entitled '**industry change on a page**' ahead of all gas ops forums which summarises in-flight modifications – feedback welcome to Anna.Stankiewicz@nationalgrid.com

Gas Market Change – Contact Us

Charging Review

- Amending the Gas Transmission Charging regime to better meet relevant charging objectives and customer/stakeholder provided objectives for Transportation charges
- Colin Williams
colin.williams@nationalgrid.com
07785 451776

Gas Quality

- Exploring the feasibility of National Grid gas quality blending services at NTS entry points
- GS(M)R Review
- Phil Hobbins
philip.hobbins@nationalgrid.com
07966 865623

Capacity Access Review

- To address short-term issues and review the principles to establish a long-term strategy for the NTS capacity access regime
- Jen Randall
jennifer.randall@nationalgrid.com
07768 251404

Other Queries

- Queries for National Grid Consultations: .box.GSOConsultations@nationalgrid.com
 - All other queries: box.OperationalLiaison@nationalgrid.com
-

Gas
Transmission

OCM Contingency Exercise



Tom Lane
Principal Energy
Strategy and
Development Analyst



Scott Keogh
Senior Settlements
Analyst

nationalgrid



Summary

- Our primary balancing tool for the NTS is the On-the-day Commodity Market (“OCM”) – predominantly as title trades at the NBP.
- In the event National Grid can’t access the OCM, and there is a requirement for balancing trades, National Grid will invoke contingency arrangements.
- This involves those who trade on the OCM using forms found on our website to submit bids/offers via email. Instructions provided via ANS.
- These have recently been reviewed, working with ICE and Xoserve.
- We’d like to test the OCM contingency arrangements and are therefore planning an exercise on the 09th March 2021.

Benefits

- Ensure familiarity with contingency procedures.
- Reduce your imbalance risk and exposure to cash out charges in contingency scenarios.
- Provide input and feedback to shape the future arrangements.

What do we need?

- Thank you to all shippers that have registered your interest.
- We are still accepting more participants, if you would like to take part in the exercise please register your interest by voting and entering your email address into the slido poll, or email directly to - box.NTS.EnergyBalance@nationalgrid.com.
- We are hoping to have a minimum of 10 participants to make the exercise successful.
- We will be in contact with all registered participants at the end of February 2021 to give an overview of the scenario.
- Please feel free to get in touch prior to this with any questions you may have.

High level plan for the day 09th March 2021

	<u>Approx. Shipper time required</u>
10:00 – Start of exercise meeting	15 Mins
11:00 – GNCC request bids / offers via simulated ANS (Email)	10 Mins
12:00 – Shippers to supply dummy bids / offers via email	30 Mins
13:00 – GNCC will publish dummy bids offers and inform Shippers of accepted trades	10 Mins
14:00 – GNCC to provide Ice with Trades and Ice to recalculate SAP and SMP buy / Sell	00 Mins
15:00 – Market provided with prices via simulated ANS (Email)	10 Mins
16:00 – End of exercise National Grid to collate Shipper feedback	10 Mins
	<u>Total</u> <u>1 Hour 25 Mins*</u>

* Shippers may spend more time through out the day testing their internal contingency procedures

- **Lessons learnt and subsequent actions will be shared with participants and ops forum distribution list**

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Data Next Steps



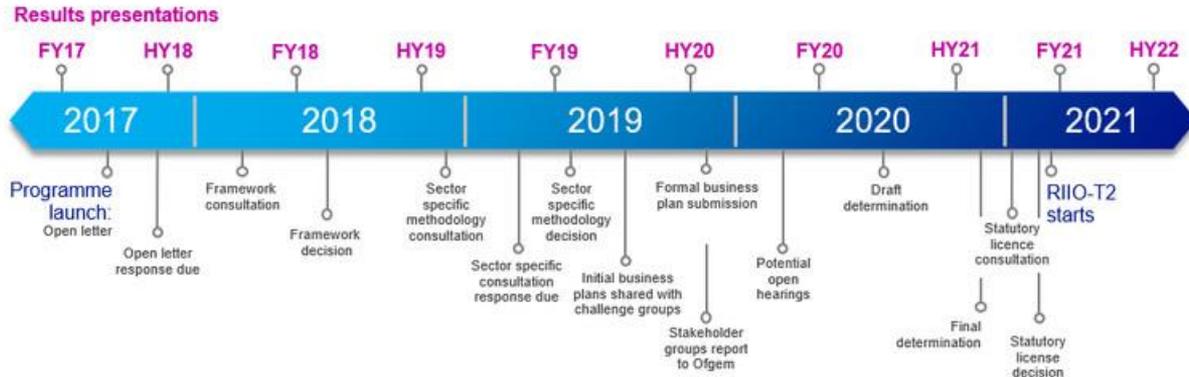
Martin Cahill
Operational Liaison Lead

nationalgrid



Data – Next Steps

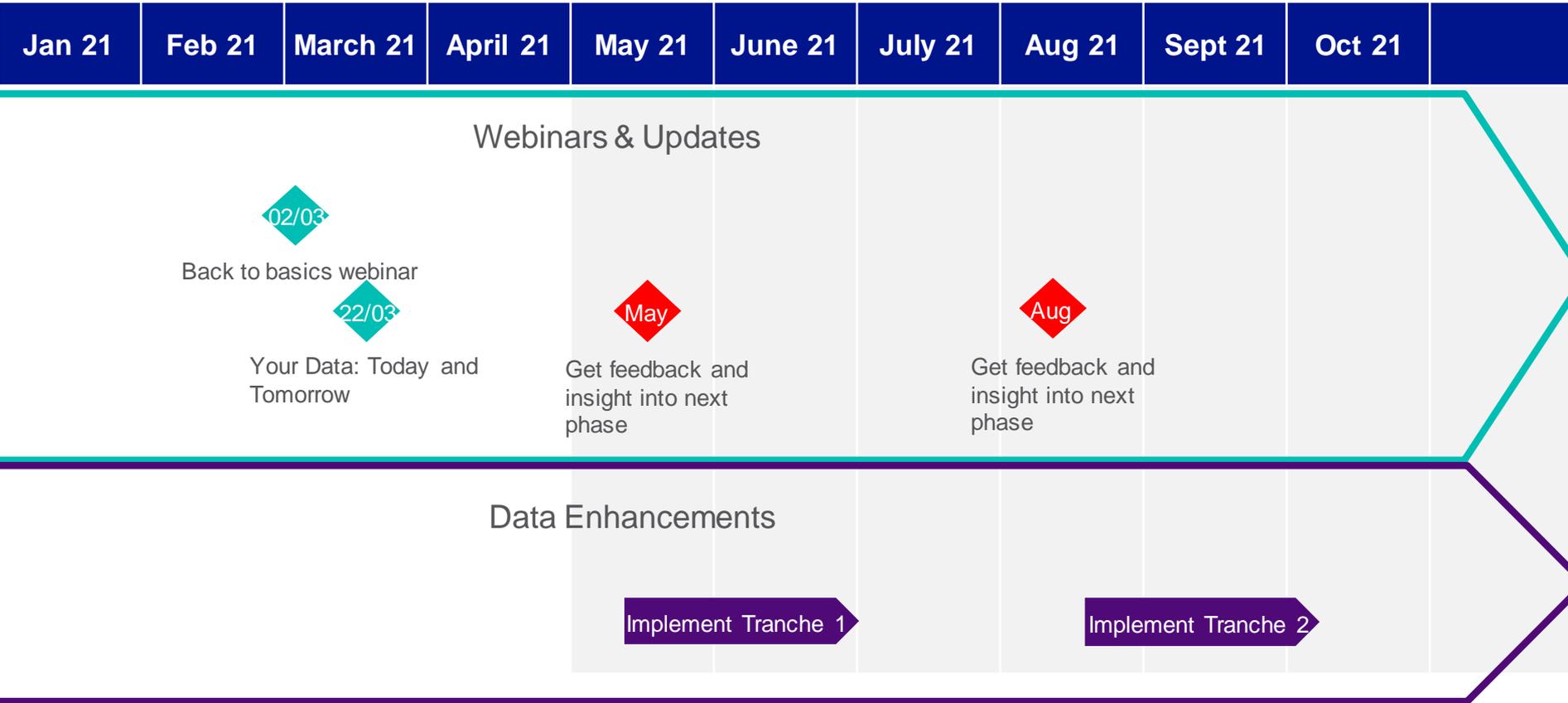
- Last year we completed the data enhancements project, implementing changes such as Prevailing View, Trading Data, Data Dictionary
- During RIIO T2, we will continue to develop our engagement programme and data access & publication



Upcoming Engagement

Event	Description	Details
Information and Data: what's available	<ul style="list-style-type: none">Following a request from stakeholders, we're holding this webinar to provide a summary of the gas information and data that's available and how to access it.	Tuesday 02 nd March Time: 10.00 – 11.00 Register here
Your data: Today and tomorrow	<ul style="list-style-type: none">We've heard from stakeholders that they'd like greater transparency around the data we publish and the process we go through to assess requests.During this webinar, we'll share this process as well as some potential data additional items that might be of interest to you.	Monday 22 nd March Time: 13.00 – 14.00 Register here

Timeline



Key Aims

- **Implementation of the agreed industry data triage process**
 - **Once finalised by ENA data working group (~May)**
- **Regular events to be held across the year to understand new data requirements**
- **Ongoing enhancements to our data throughout T2**

Operating the Network Webinar

Event	Description	Details
Operating the network and the decisions we make	<ul style="list-style-type: none"><li data-bbox="473 256 1481 361">• We've been asked 'Is operating the gas transmission system becoming more challenging? if so why?' Join us as we explore how operating the network has changed and why.	Tuesday 16 th March Time: 09.30 – 10.30 Register here

Gas Transmission

Updates



Joshua Bates
Operational Liaison & Business
Delivery Manager

nationalgrid



National Grid / Xoserve Journey Collaboration

- As shared at the November Forum, National Grid and Xoserve have been collaborating on the Energy Balancing journey
- In response to feedback, a new ‘After the Day and Invoicing’ guide has been published which pulls together information across the processes. This highlights key contact information which was specifically requested by customers during feedback.



<https://datacommunity.nationalgrid.com/key-documents/guides/energy-balancing-after-the-day-and-invoicing/>

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National Grid For further info or to provide feedback contact: carrie.bury@nationalgrid.com



Gas Transmission

Review of the Impact of a Gas Supply Shortage on the Electricity Network (RIGSSE)



Tom Wilcock
Safety, Response and Assurance
Manager

nationalgrid



Focus Group – **Gas Shippers:** Review of the Impact of a Gas Supply Shortage on the Electricity Network (RIGSSE)

Fri 19th March 09:30 – 11:30

Join the Gas Shippers Focus Group to:

- Comment on the interplays, relevant to your sector, within the Market and Emergency Map
- Define the impact of a loss of energy supplies on your sector

Energy
Emergency
Executive
Committee

Register at:

<https://www.eventbrite.com/e/rigsse-mapping-the-impact-shippers-tickets-142093091261>



Gas Transmission

Close



Joshua Bates
Operational Liaison & Business
Delivery Manager

nationalgrid



Next Forum

The Next Operational Forum will take place on the 25 March via WebEx or Teams

Please send any topic requests to:

Box.OperationalLiaison@nationalgrid.com

Register now at:

<https://uknationalgrid.webex.com/uknationalgrid/onstage/g.php?MTID=ed01972013009e7f5e3cab4e361040ee6>

