

Gas  
Transmission

# Gas System Operations COVID-19 Response Webinar June

WebEx

03 June 2020

11.00am – 12.00pm

Please ask any questions throughout the session  
using [www.sli.do](https://www.sli.do) (meeting code: #GasOps20)

nationalgrid



**Gas  
Transmission**

# **Introduction & Agenda**

**Joshua Bates**

Operational Liaison & Business  
Delivery Manager

**nationalgrid**



# Presenters

## National Grid

Joshua Bates – Operational Liaison & Business Delivery Manager

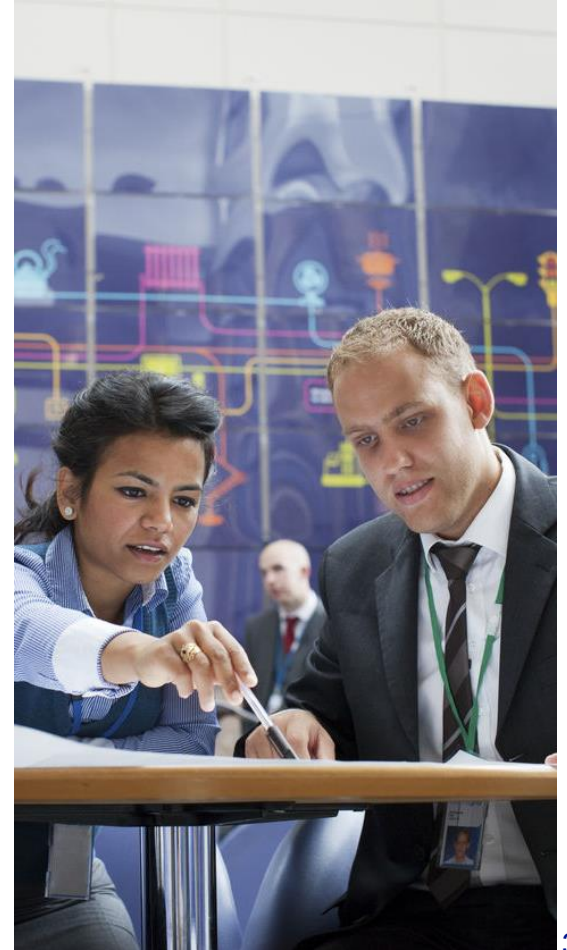
Martin Cahill – Operational Liaison Lead

George Killick – Operational Strategy Engineer

Craig James – Physical Operations Manager

**This slide pack will be uploaded onto the collaboration site and National Grid website after the meeting.**

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



# Agenda for Today

- 
- |           |  |
|-----------|--|
| <b>01</b> | Industry Engagement                          |
| <b>02</b> | Operational Update                           |
| <b>03</b> | Demand Forecasting Considerations & Examples |
| <b>04</b> | GNCC – Recent Operations                     |
- 

**Please ask any questions  
using on sli.do (meeting  
code: #GasOps20)**

**These will be covered at the  
end**

# Housekeeping for WebEx Forums

## During our WebEx events;

- Attendees will be automatically muted on dial in, please ensure your cameras are off too.
- Please ask any questions throughout the session using [www.sli.do](http://www.sli.do) (meeting code: #GasOps20) and up rate other questions if you would like them answered. We will cover any questions at the end of the presentation.
- If you would like to verbally ask your question, please "raise your hand" and you shall be unmuted at the appropriate time.
- For both presenting and answering questions we will endeavour to state our name and position in National Grid before speaking.





**Gas  
Transmission**

# **Industry Engagement**

**Joshua Bates**

Operational Liaison & Business  
Delivery Manager

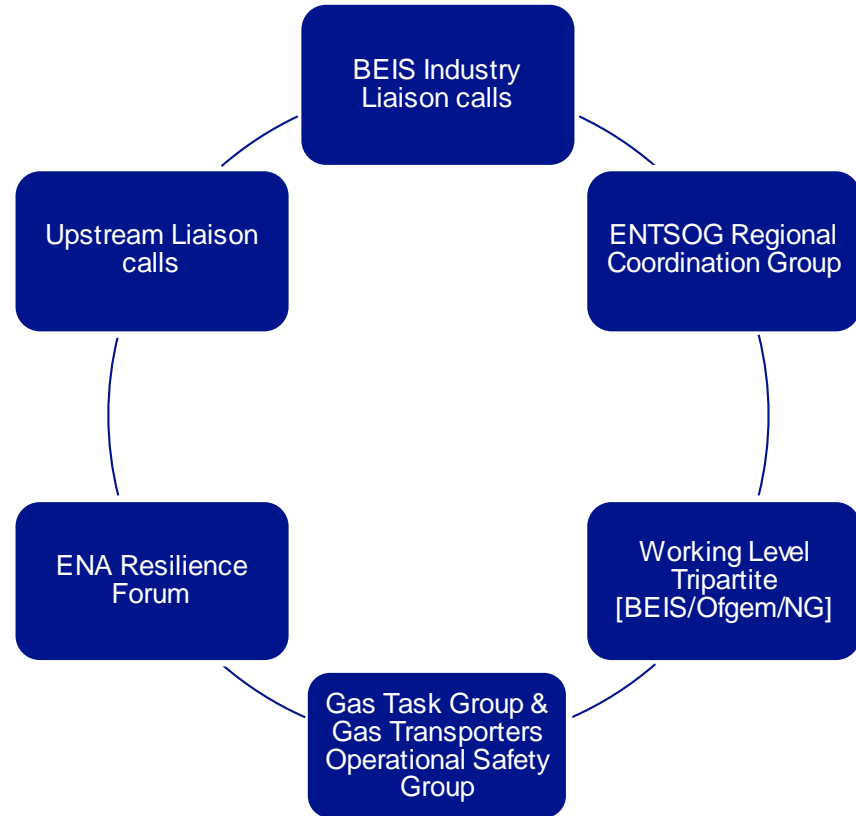
**nationalgrid**



# COVID-19 Industry Forums

Several industry forums have either been established, or are holding a cadence of exceptional meetings, to focus on the response to COVID-19

If you are not currently involved in any industry engagement and would like to be, please email [Box.OperationalLiaison@nationalgrid.com](mailto:Box.OperationalLiaison@nationalgrid.com) and we will put you in touch with the host.



# Calendar year 2020 Ops forums

*All forums will be held via WebEx until further notice*

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Lon	Lon	Lon	X	War	Lon	X	X	Lon	Lon	War	X
23/01	20/02	19/03		14/05	18/06			17/09	22/10	19/11	

- Recent decision on charging review- will be covered at June Ops Forum
- Guest Presentation from ICIS this month

**Registration is open for all 2020 events at:**  
<https://www.nationalgridgas.com/data-and-operations/operational-forum>

**For the June forum please register at:**  
<https://uknationalgrid.webex.com/uknationalgrid/onstage/g.php?MTID=efd108bc8338d2125e4a920b692aed2e5>



# How to contact us

## Operational Liaison Team

Joshua Bates: [Joshua.Bates@nationalgrid.com](mailto:Joshua.Bates@nationalgrid.com)

Martin Cahill: [Martin.Cahill@nationalgrid.com](mailto:Martin.Cahill@nationalgrid.com)

Operational Liaison Email:

[Box.OperationalLiaison@nationalgrid.com](mailto:Box.OperationalLiaison@nationalgrid.com)

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>



**Gas  
Transmission**

# Operational Update

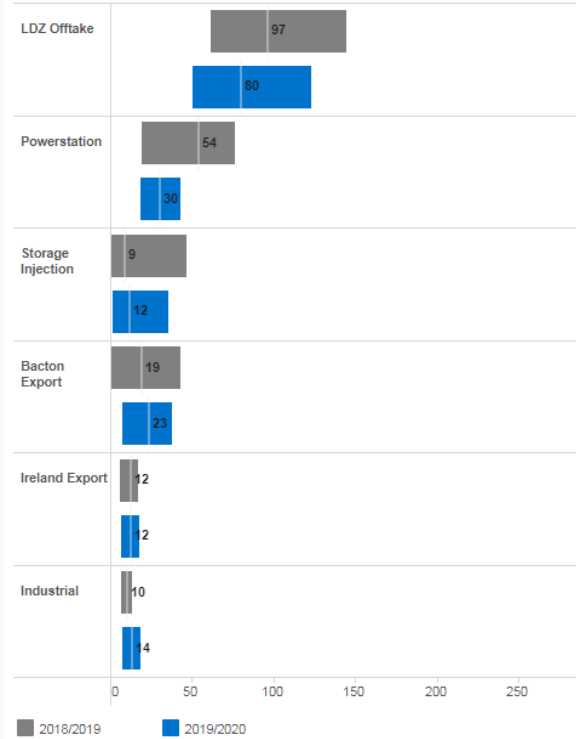
**George Killick**  
Operational Strategy Engineer

**nationalgrid**

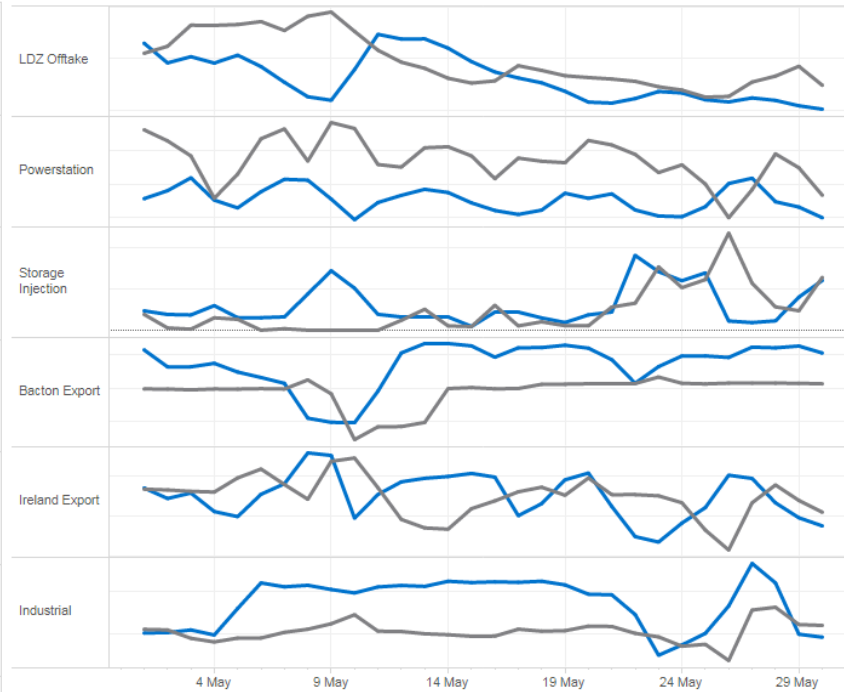


# Demand (mcm/d)

Average Daily Volume and Range (4 weeks)



Trend Vs Previous Year (last 4 weeks)



LDZ Offtake has on average been lower (warmer weather and lockdown restrictions on business)

PS Demand reduced significantly due to high solar and wind generation

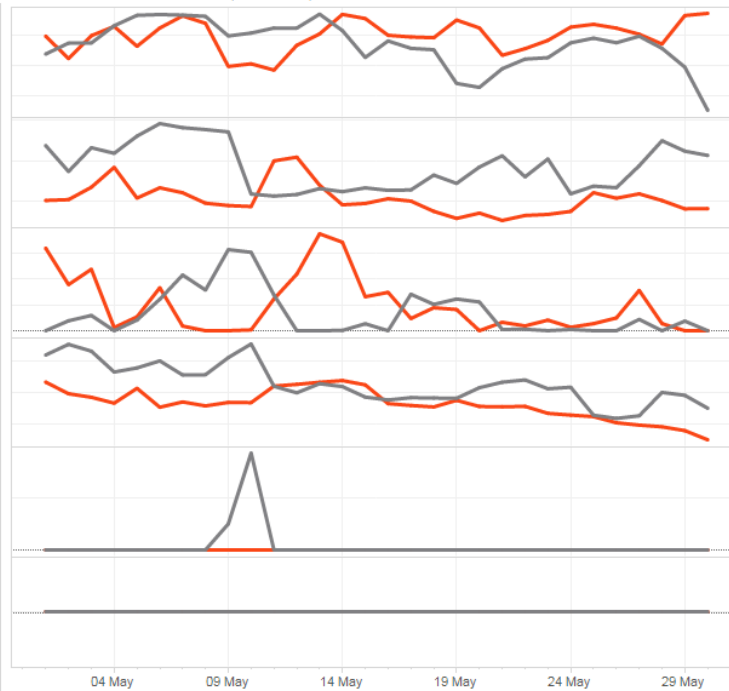
Slight Bacton export increase due to surplus supplies

# Supply (mcm/d)

Average Daily Volume and Range (4 weeks)



Trend Vs Previous Year (4 weeks)



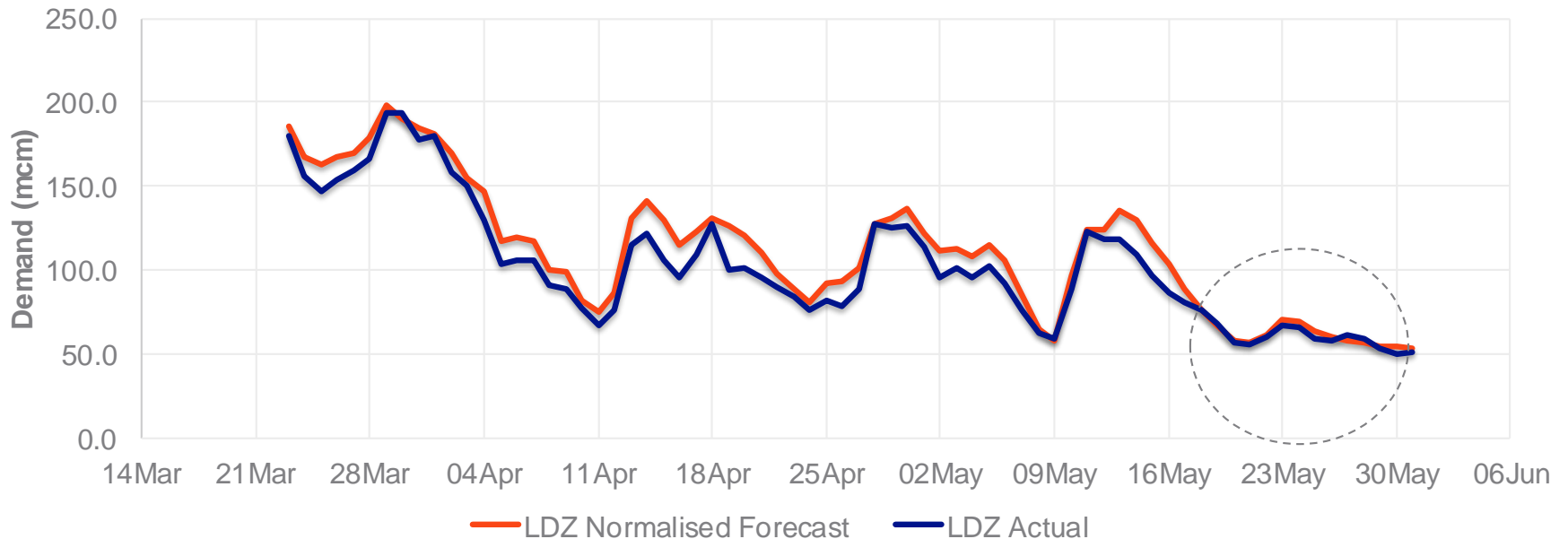
UKCS Volumes have remained similar to last year

Norway supplies have remained significantly lower than last year

LNG supplies have also reduced compared to last year

# Demand Update: LDZ

In recent days LDZ Demand has been much closer to what we would expect based on the normalized demand



**Gas  
Transmission**

# **Demand Forecasting Update**

**Martin Cahill**  
Operational Liaison Lead

**nationalgrid**





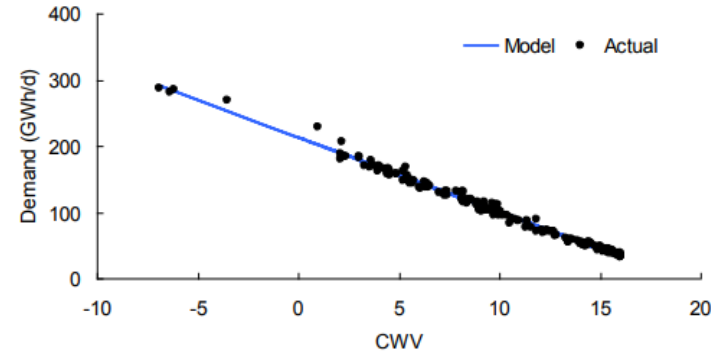
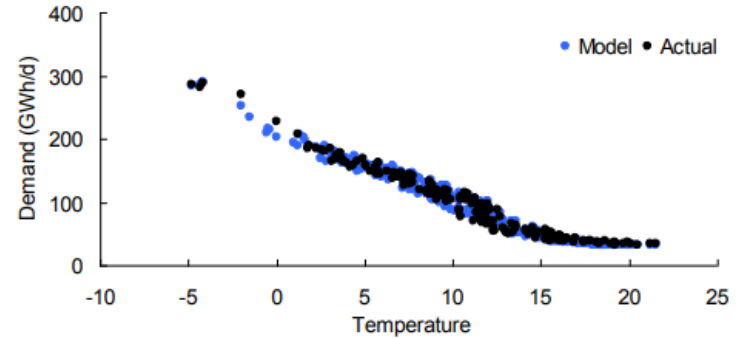
# Composite Weather Variable

Usually, domestic demand accounts for the biggest demand swings and is therefore a key factor in predicting overall Network Demand

However with consistently low LDZ demand and high exports, CWV has made up a smaller component in the overall demand model

Availability of supply and prices have been more important for forecasts

CWV has a much more consistent match with demand than temperature – though can still get outliers e.g. a sunny day at the same temperature as an overcast day could have lower demand



# Demand Comparison

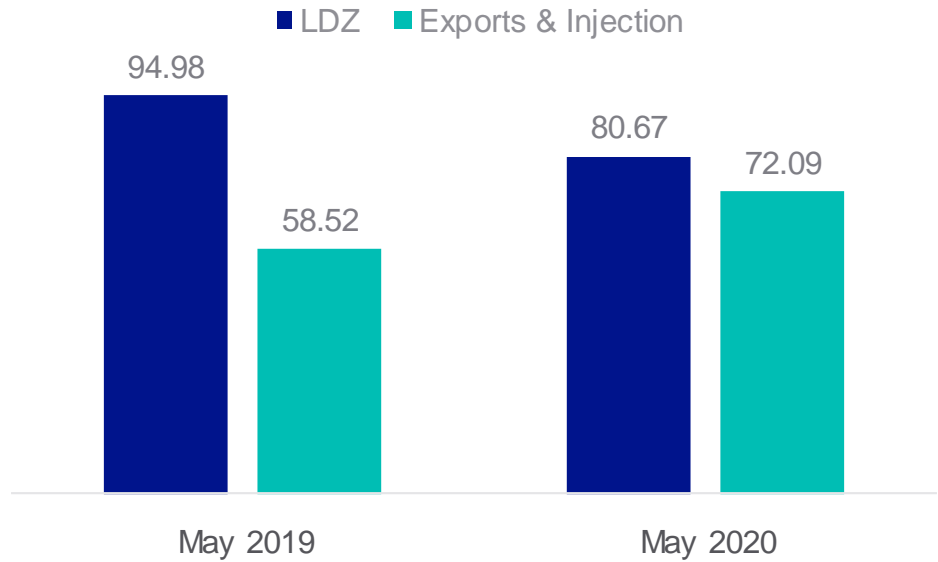
**This Summer Demand has been more influenced by prices than CWV**

**Storage Injection and Interconnector exports are close to total LDZ Demand**

**LDZ Demand in May was just 42% of the overall network demand**

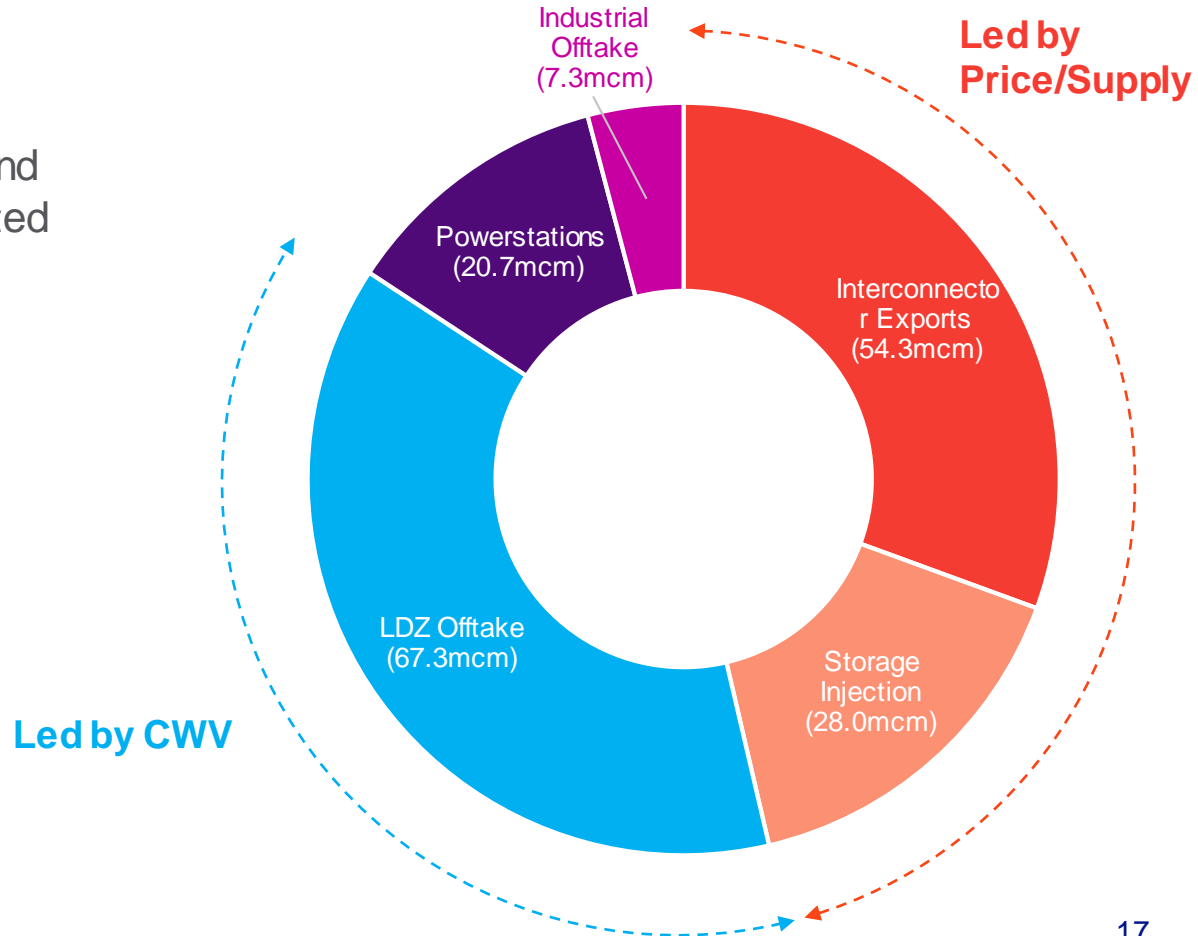
**2019 also saw a wider range of LDZ Demands**

LDZ vs Exports and Injection (mcm)

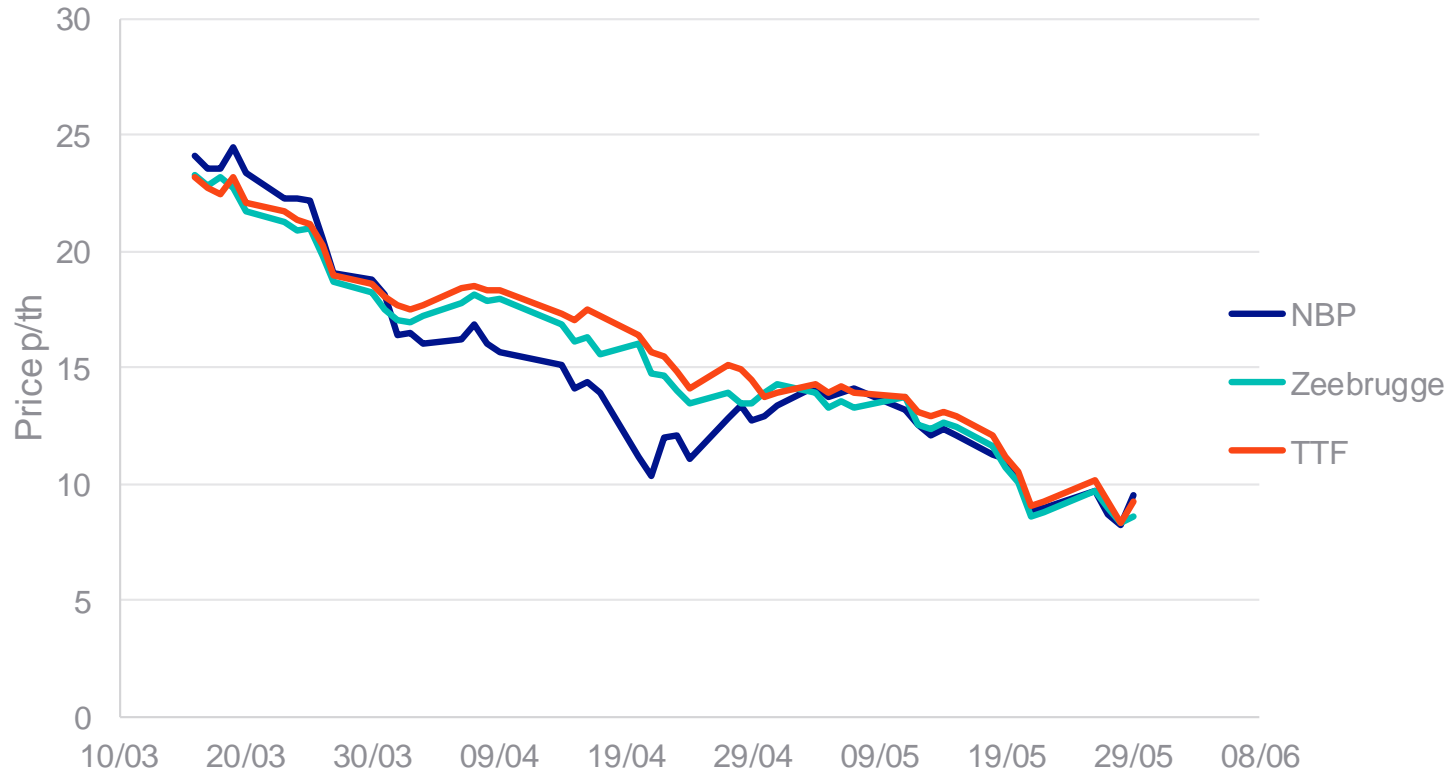


# 23<sup>rd</sup> May – Example

- On this day storage injection and Interconnector exports accounted for nearly half of the overall Network Demand (82.3mcm)
- LDZ Demand made up just 67.2mcm in comparison (38%)



# Prices (May 2020)

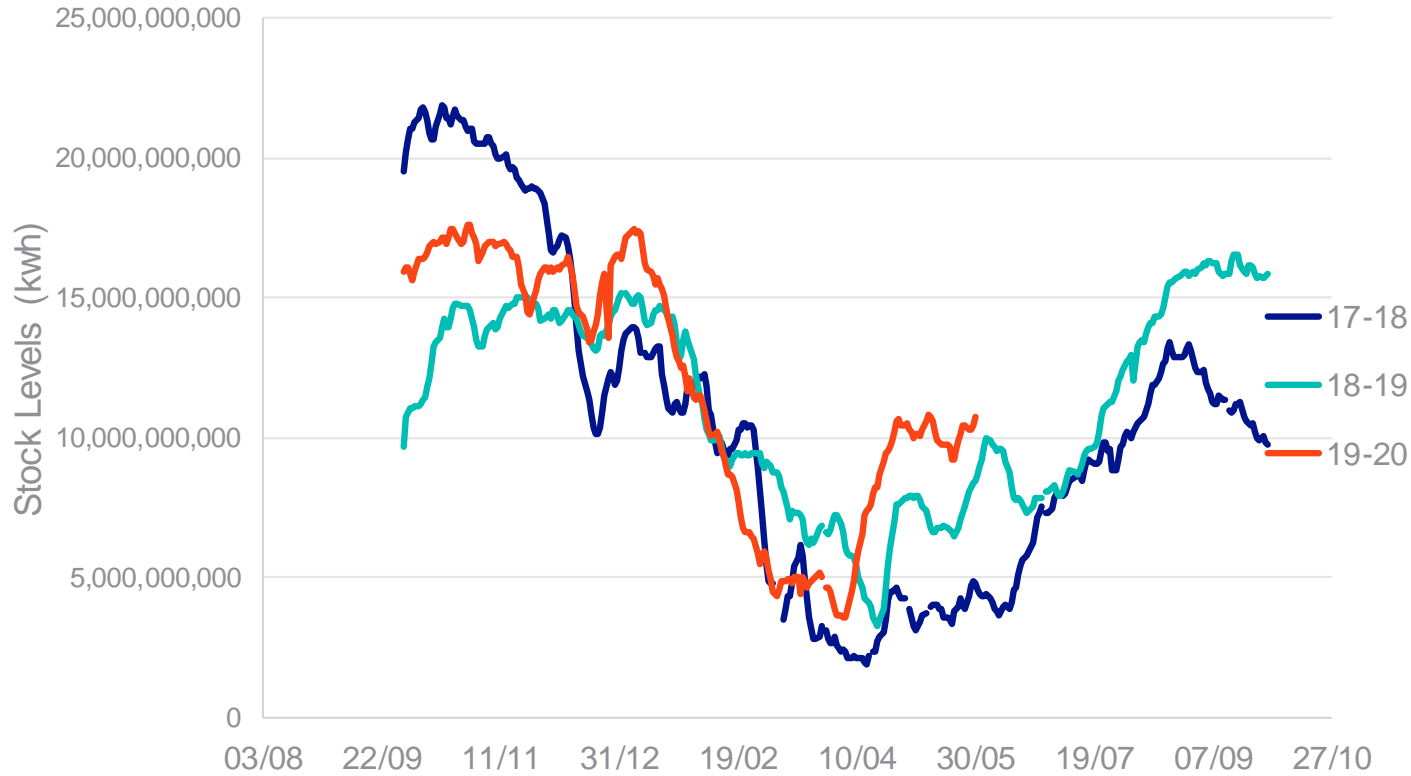


Prices across Europe have steadily declined

In April the forward NBP price for May reduced significantly below other markets, prompting capacity sales for IUK and BBL

Source: Argus

# Storage Stocks – Quick Start to the Summer



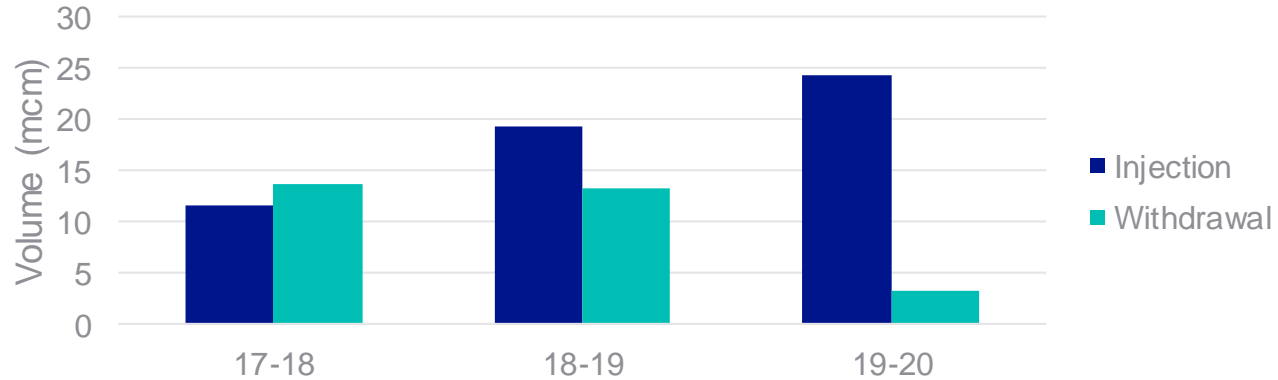
High amount of supply and low prices have contributed to fast storage injection at the start of the summer

# April Injection

**Injection was particularly high in April**

**This has slowed in May as the quantities of LNG importation have reduced**

## April Injection and Withdrawal



## LNG Supply





# Gas Power Station Demand

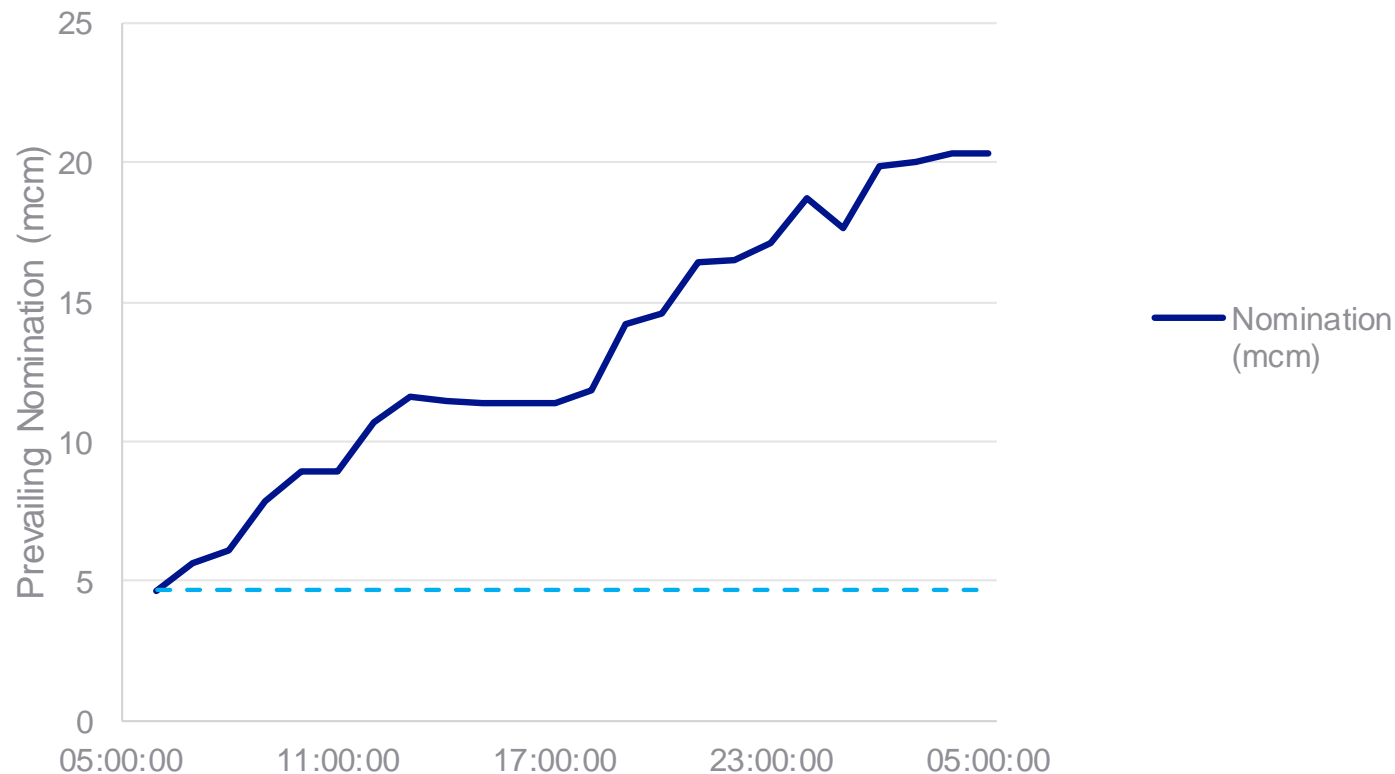
**Lower Gas Power Station Demand can impact on National Grid ESO**

**Recently we have had sunny weather with high wind speeds, resulting in a higher amount of renewable generation**

**See National Grid Demand update from May Operational Forum for a further description of the interaction between Renewable and Gas Generation (MP4 Recording Available)**

**<https://datacommunity.nationalgridgas.com/key-documents/gas-ops-forum-2019/may-2020-forum/>**

# CCGT Demand – 23<sup>rd</sup> May Example



Over Bank Holiday weekend high renewable availability and low electricity demands resulted in a particularly low initial CCGT nomination for the gas day (5mcm)

Saw this increase throughout the day to 20mcm

**Gas  
Transmission**

# **Gas National Control Centre Update**

**Craig James**  
Physical Operations Manager

**nationalgrid**



# GNCC COVID-19 Contingency Plans

## GSO Control Room Staff

- Originally separated between sites, now remain in different rooms within the same site.
- Changes made to shift rota arrangements, including introducing standby teams and 12 hour shifts.
- Preserved physical separation between shift personnel on handover and enhanced cleaning in the control rooms – site access restricted to critical staff only
- Accommodation pods onsite for those that would like them
- Working arrangements under continual review

## GSO Non-Control Room Staff

- All non-control room staff working from home
- System operation and continued monitoring is maintained due to our BCM plans

Rota: Morning or evening 12 hour shifts (7-7). Week 4 = rest week



Standby: week 1 standby, week 2 days



# Priorities for the coming months

## Activities to keep

Understanding which changes could have a positive impact when kept on a long term basis

## Adapting to the 'new normal'

Medium range plans ensuring risk is minimised over the coming months, particularly as UK restrictions are gradually lifted

## Response to future incidents/events

Pandemic has provided an opportunity to test our resilience plans, and as with any incident or emergency exercise we will use learning to improve our processes

# Reminder: Contingency Communications

**A number of connected sites are already registered for electronic notifications (EDSS). If you are not but would like to move away from fax notifications, please contact:**

**[Box.OperationalLiaison@nationalgrid.com](mailto:Box.OperationalLiaison@nationalgrid.com)**

With much of the Industry working remotely, flexibility is available for contingency processes:

- Operating Margins (Email instead of fax)
- GEMINI Contingency (Email instead of fax)
- Notifications (Email if EDSS unavailable)



# ANS Details

## Active Notification System (ANS)

### Important for Shippers to ensure details up to date for ANS text/email messages

We want to ensure that all Shippers are able to receive ANS messages so please could you check that the contact information registered against your Shipper entity is accurate by following the below link:

<https://www.s2.emergencycallsecure.com/newlogin/>

In order to access the system, you will need your Company ID, User ID and Password.

### ANS messages are also available to view publicly on the Gas Prevailing View webpage

The screenshot shows a web interface with a blue header containing navigation links: Balancing, Capacity, Charging, Connections, Data and operations, Land and assets, and Insight and Innovation. Below the header, there is a breadcrumb trail: Home > Data and Operations. A secondary navigation bar includes 'Gas Prevailing View', 'Report Explorer', and 'Data Item Explore'. The main content area features a large blue card titled 'Gas Day: 01 JUNE 2020' and 'Gas System and Market Status ANS Message'. Below the title, it states 'There are no ANS messages.' At the bottom of the page, there are two summary cards for 'TODAY: 01 JUNE 2020' and 'TOMORROW (D-1): 02 JUNE 2020'. Each card lists 'Gas Balancing Notifications', 'Margins Notice Trigger', and 'Demand Forecast' with values in mcm.

Category	TODAY: 01 JUNE 2020	TOMORROW (D-1): 02 JUNE 2020
Gas Balancing Notifications		
Margins Notice Trigger		
Demand Forecast	168.43 mcm	171.00 mcm

**Gas  
Transmission**

# Questions & Close

**Joshua Bates**

Operational Liaison & Business  
Delivery Manager

Please ask any questions at  
[www.sli.do](http://www.sli.do)  
#GasOps20 (meeting code)

**nationalgrid**



national**grid**