Gas Transmission

Gas Operational Forum

WebEx
18th June 2020
9.30am

Slido
#GasOps20

nationalgrid

Gas Transmission

Introduction & Agenda

Joshua Bates
Operational Liaison & Business Delivery Manager

nationalgrid

Presenters

National Grid

Joshua Bates – Operational Liaison and Business Delivery Manager

Martin Cahill – Operational Liaison Lead

George Killick – Operational Strategy Engineer

Sarah Carrington – Comms & Engagement Lead (GEMINI Change Project)

Colin Williams – Commercial Codes Change Manager

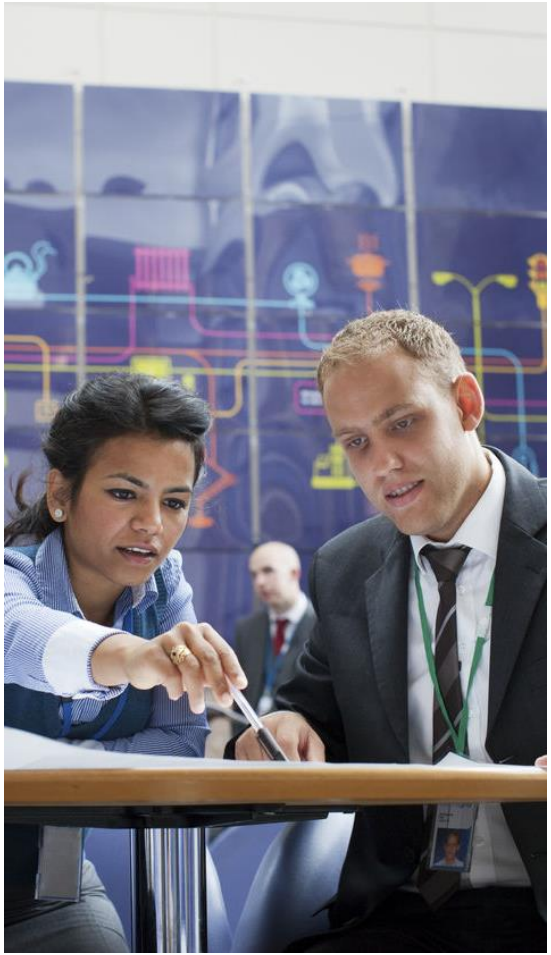
ICIS

Thomas Rodgers – Deputy Editor

Xoserve

Andy Baugh – CSS Stakeholder Relationship Manager

Rob Westwood – Customer Support Manager



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	Online	X	Online	Online	X	X	Lon	Lon	War	X
23/01	20/02	19/03		14/05	18/06			17/09	22/10	19/11	

Location:

Amba Hotel
Strand
Charing Cross
London
WC2N 5HX

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

Housekeeping for WebEx Forums

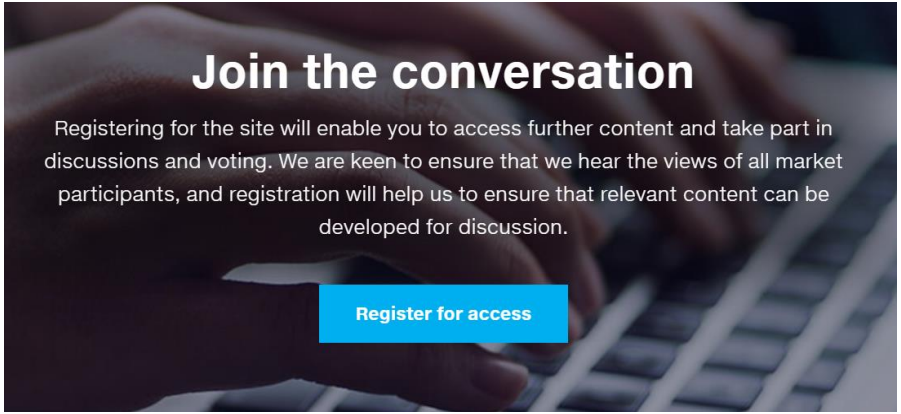
During our WebEx events;

- Attendees will be automatically muted on dial-in, please ensure your cameras are off too.
- We will break at the end of each section to answer questions, please use the ‘raise a hand’ function on WebEx and we will un-mute you.
- Alternatively, you can ask any questions via sli.do and we will answer them at the end of each section. The meeting code is #GasOps20.
- 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.



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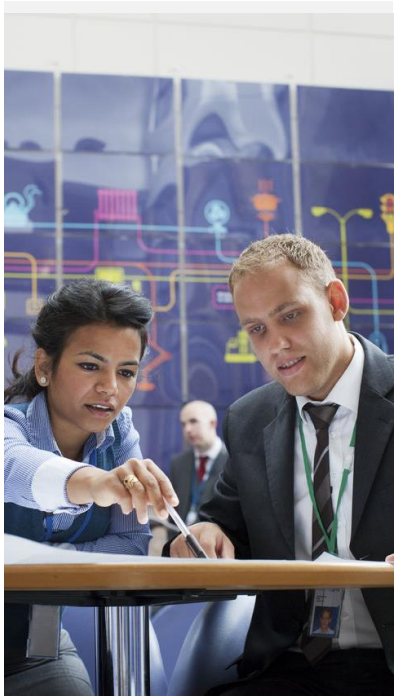
For updates and interaction with National Grid please visit;
https://datacommunity.nationalgridgas.com/

For the National Grid Gas Website, please visit;
https://www.nationalgridgas.com/about-us

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;
https://datacommunity.nationalgridgas.com/

For the National Grid Gas Website, please visit;
https://www.nationalgridgas.com/about-us

Agenda for Today

01	Introduction, resources available to you and agenda	09.30
02	Operational Update	09:40
03	Guest Presentation - ICIS	09:50
04	UNC 0678A: Gas Transportation Charging Changes	10:20
05	GEMINI Change Programme	10:35
06	Central Switching Service	10:55
07	Questions & Feedback	11:15

Please ask any questions using slido #GasOps20 or by raising your hand.

These will be covered at the end of each agenda section

Gas Transmission

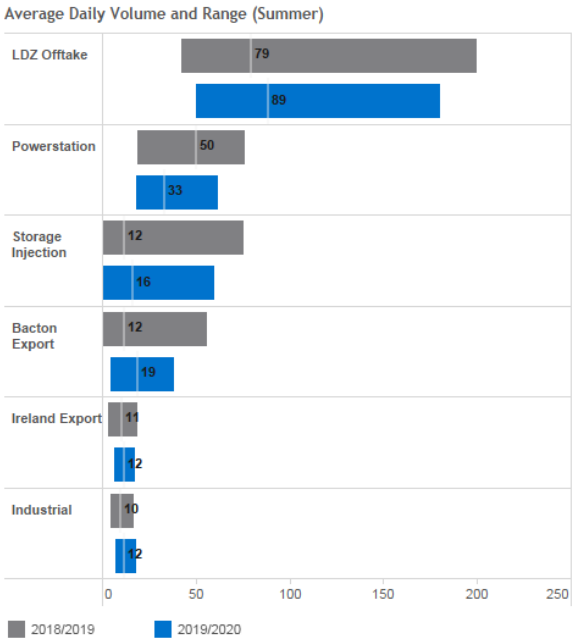
Operational Overview June 2020

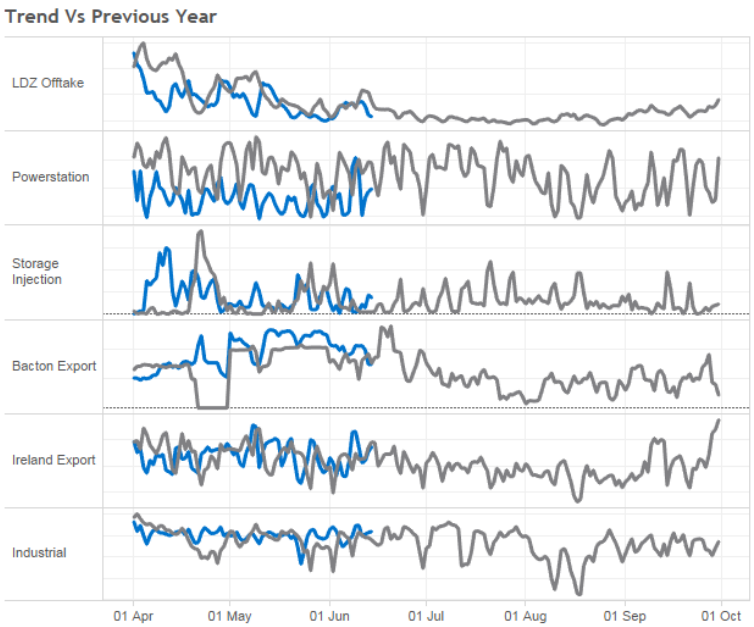
George Killick
Operational Strategy Engineer

Martin Cahill
Operational Liaison Lead

nationalgrid

NTS Demand





N.B Shell Backhaul excluded from Industrial total

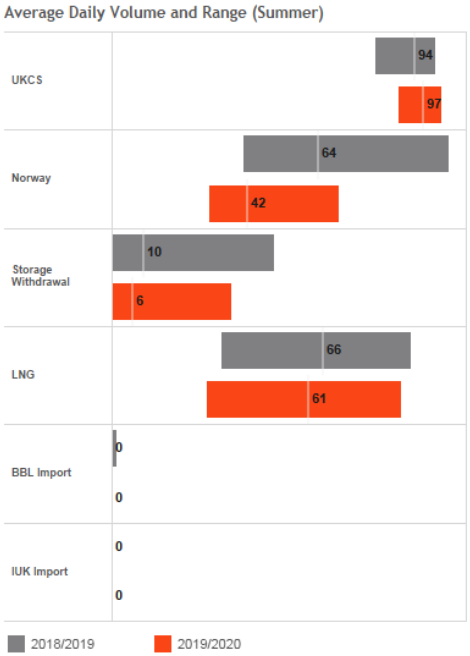
COVID-19 Demand reductions and mild weather during the shoulder months have contributed to very low LDZ demands

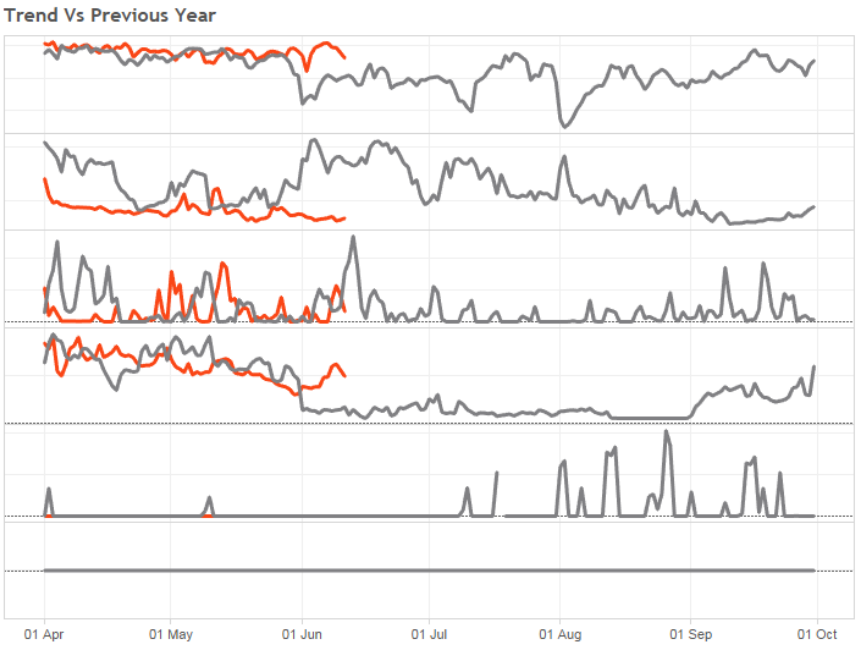
Very low PS utilisation (lower electricity demand)

Fast Storage Injection has slowed

Bacton Exports consistently high

NTS Supply





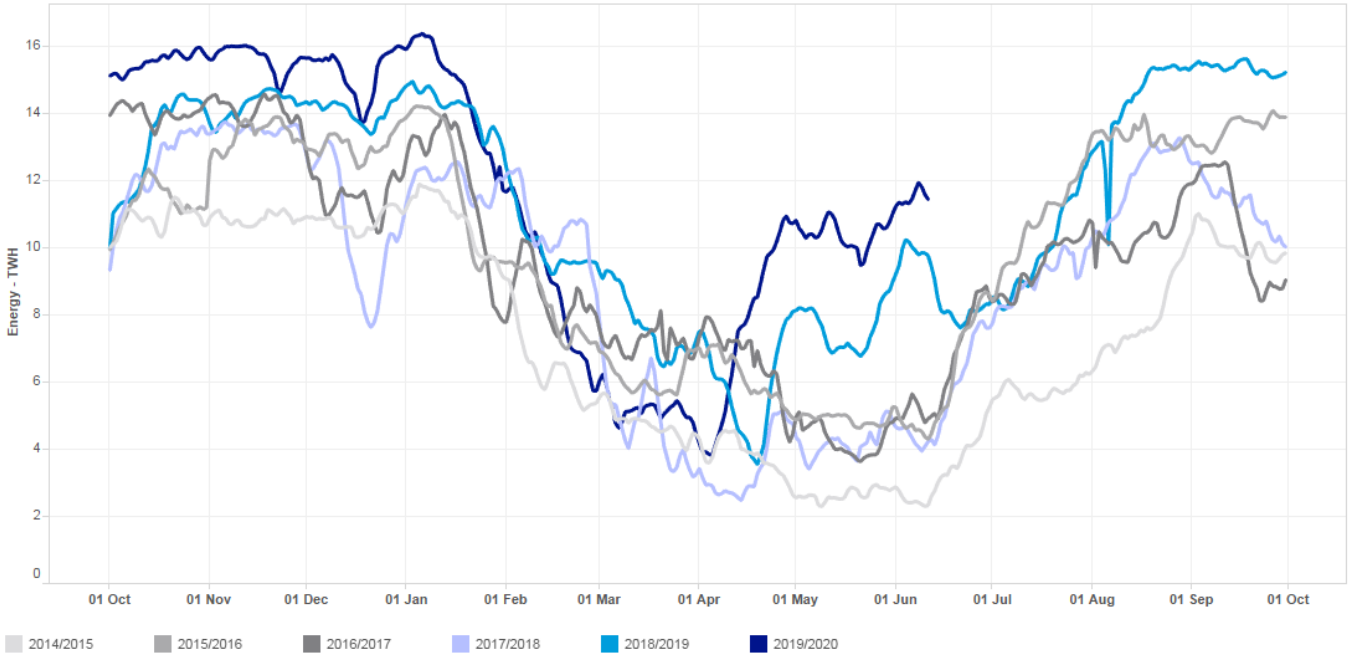
Cancellation of upstream maintenance work has resulted in a very consistent UKCS summer supply

Most days near zero storage withdrawal- short period with higher demands in May

No Interconnector Imports

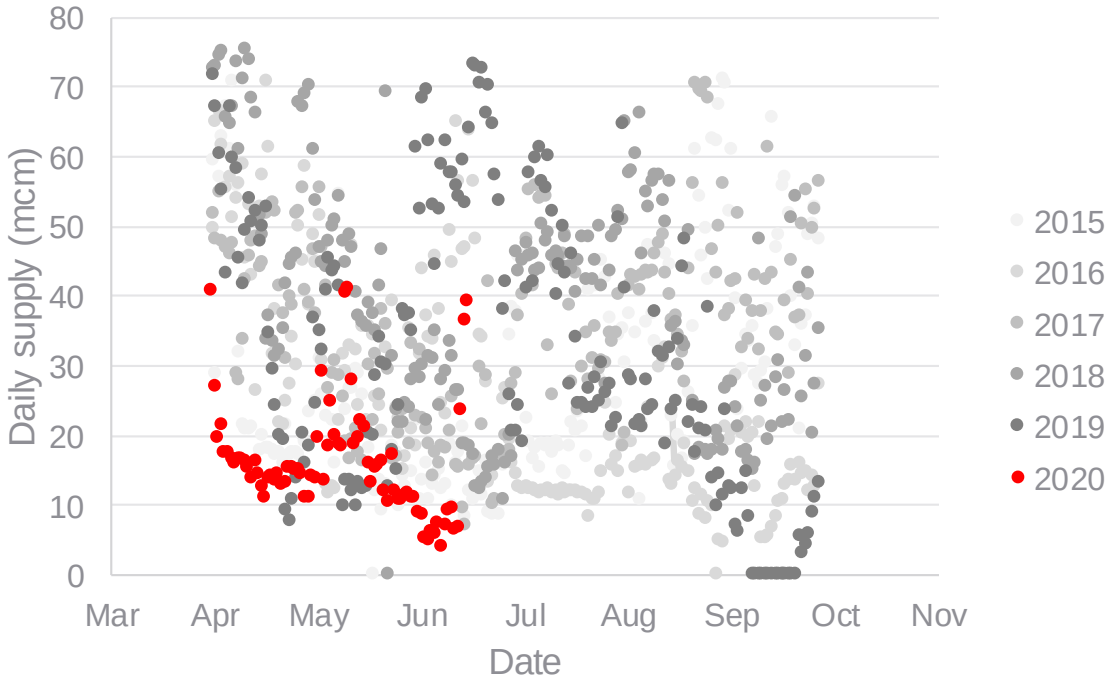
High LNG supply has reduced

Storage Stocks



Injection has slowed down, however stocks are still at a very high point for this time of year compared to historic levels

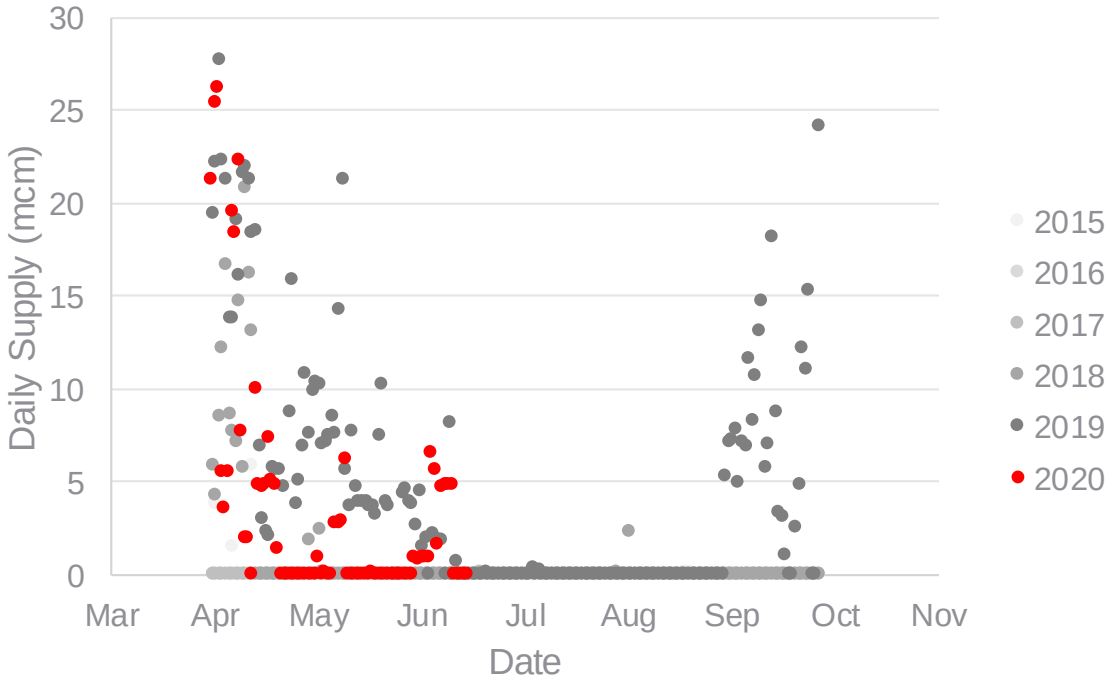
Langeled Flows



Supply at Langeled consistently in a very low range this summer in comparison to recent years

Increase seen in last few days

Grain Flows

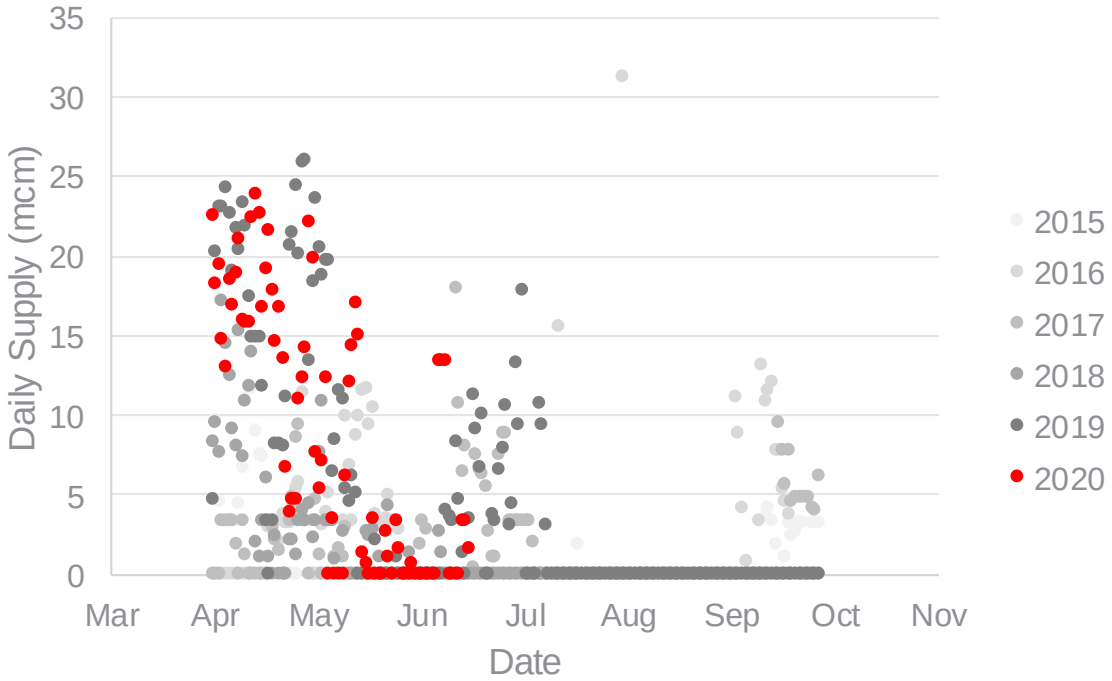


High deliveries at Grain in April

Supply has since dropped in line with historic patterns

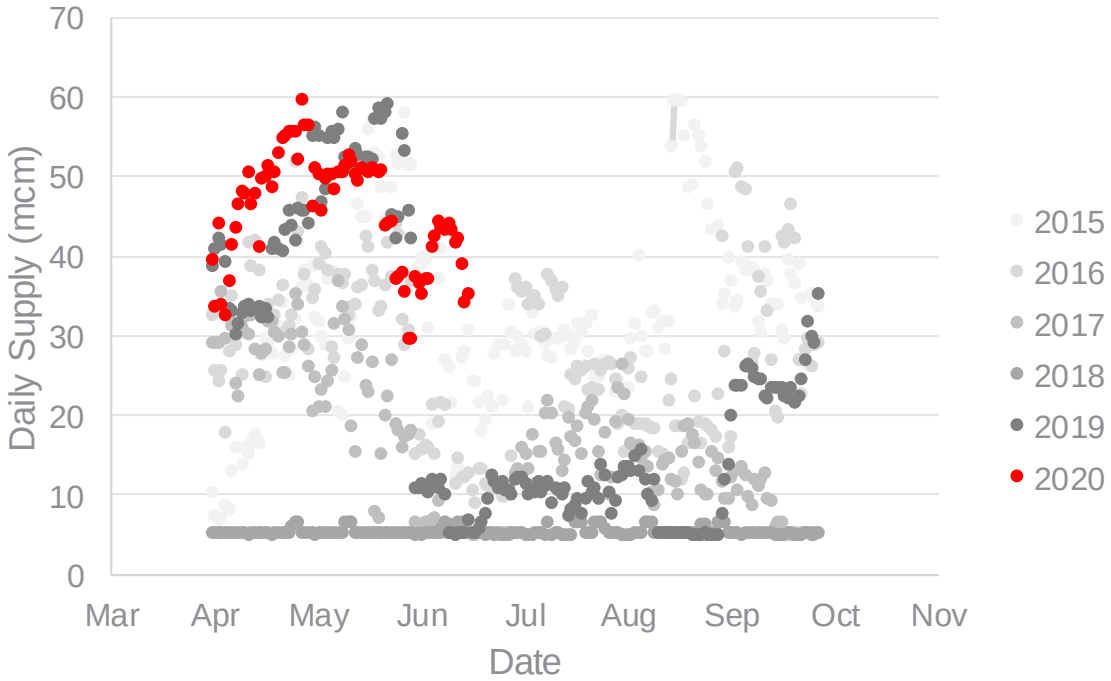
Low supply in peak summer months with weaker pricing

Dragon Flows



Dragon supply has reduced after a consistently high supply during the shoulder months

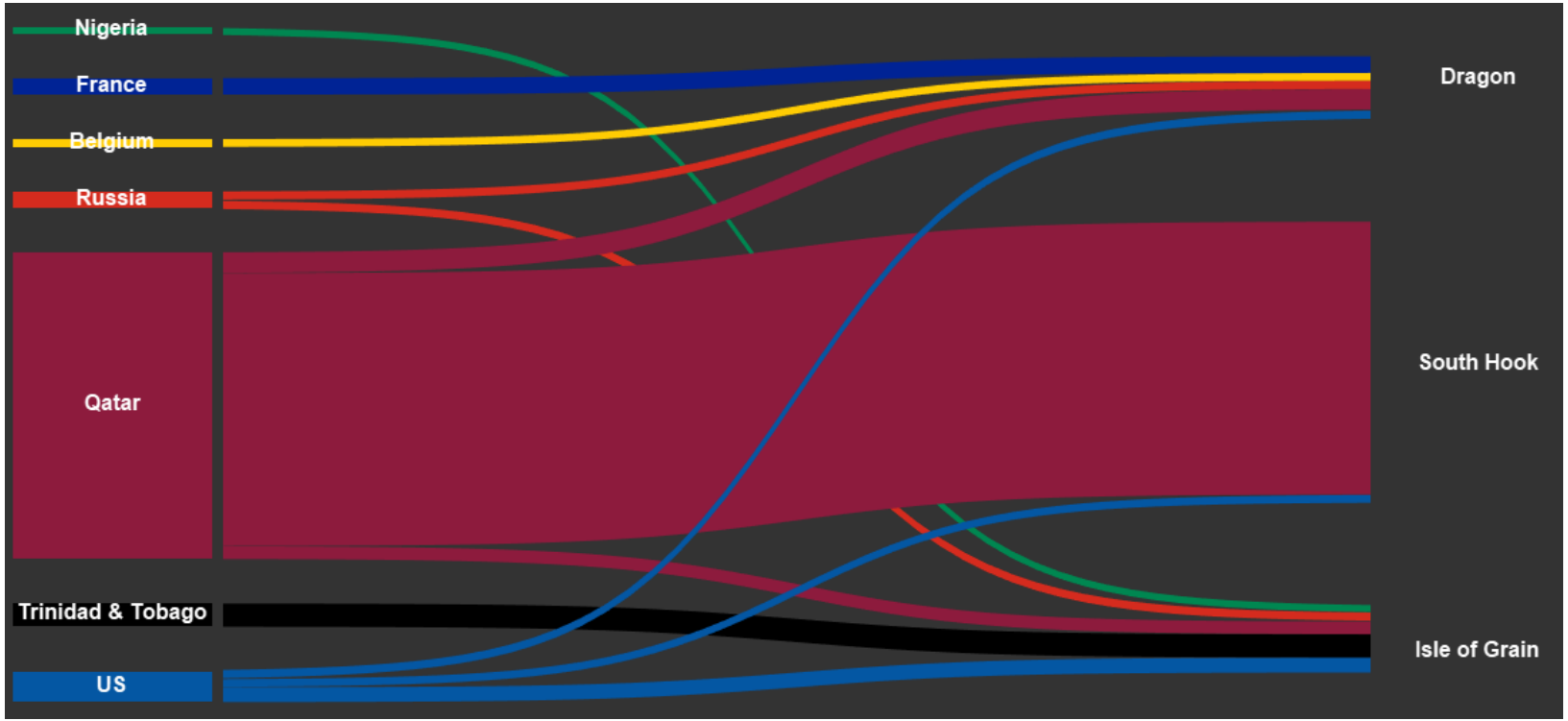
South Hook Flows



South Hook has delivered more consistently in comparison to the other LNG terminals

Supply continues to be high even in comparison to historical range

LNG Deliveries

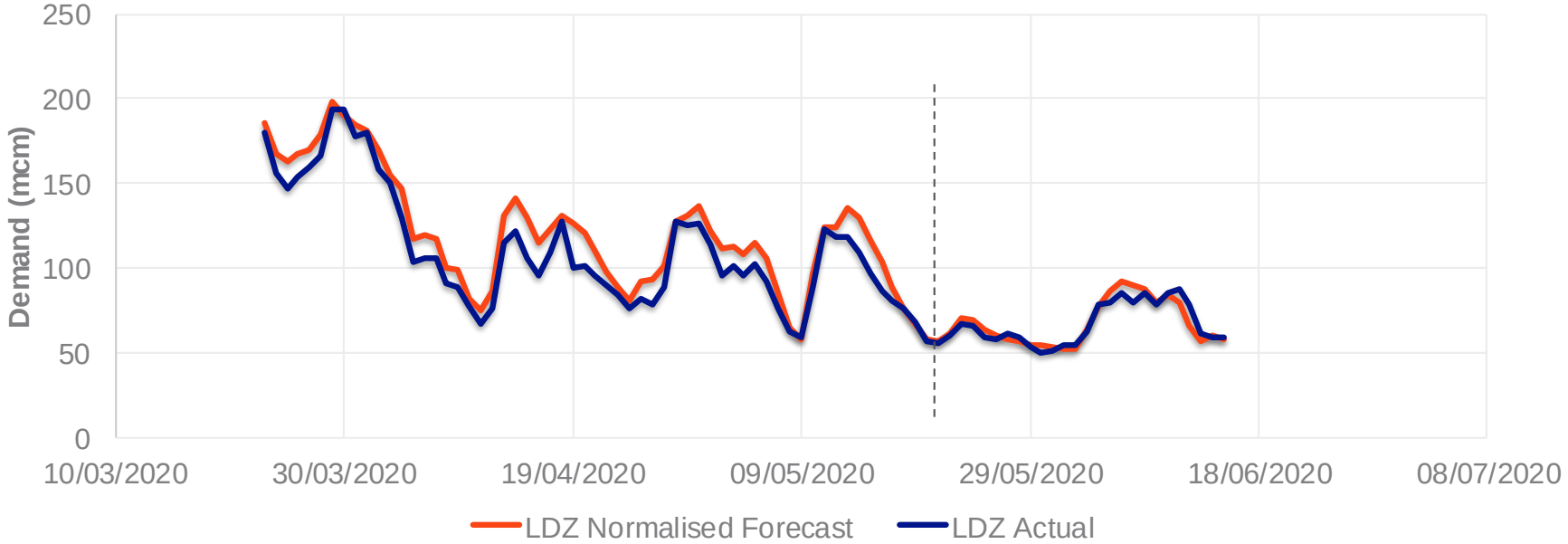


Source: Argus

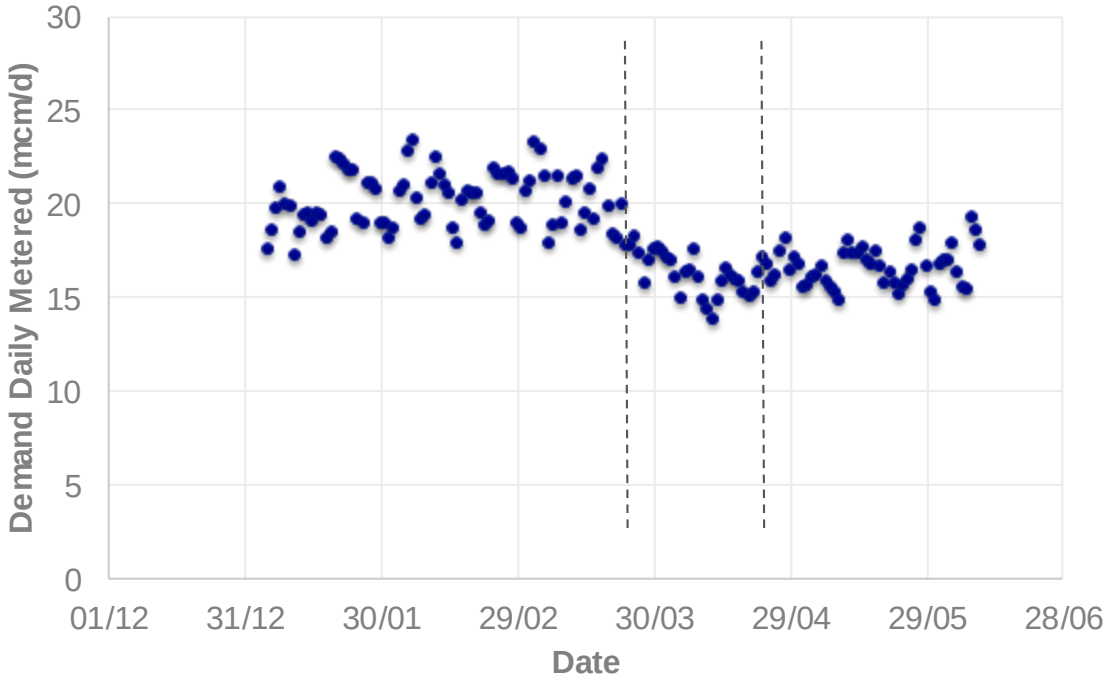
Size proportionate to number of boats (since 1 April)

Demand Update: LDZ

First easing of lockdown was on the 10th May
From the 18th May Demand has been 0.9% lower than normalised
In the period before this there was a reduction of 9%



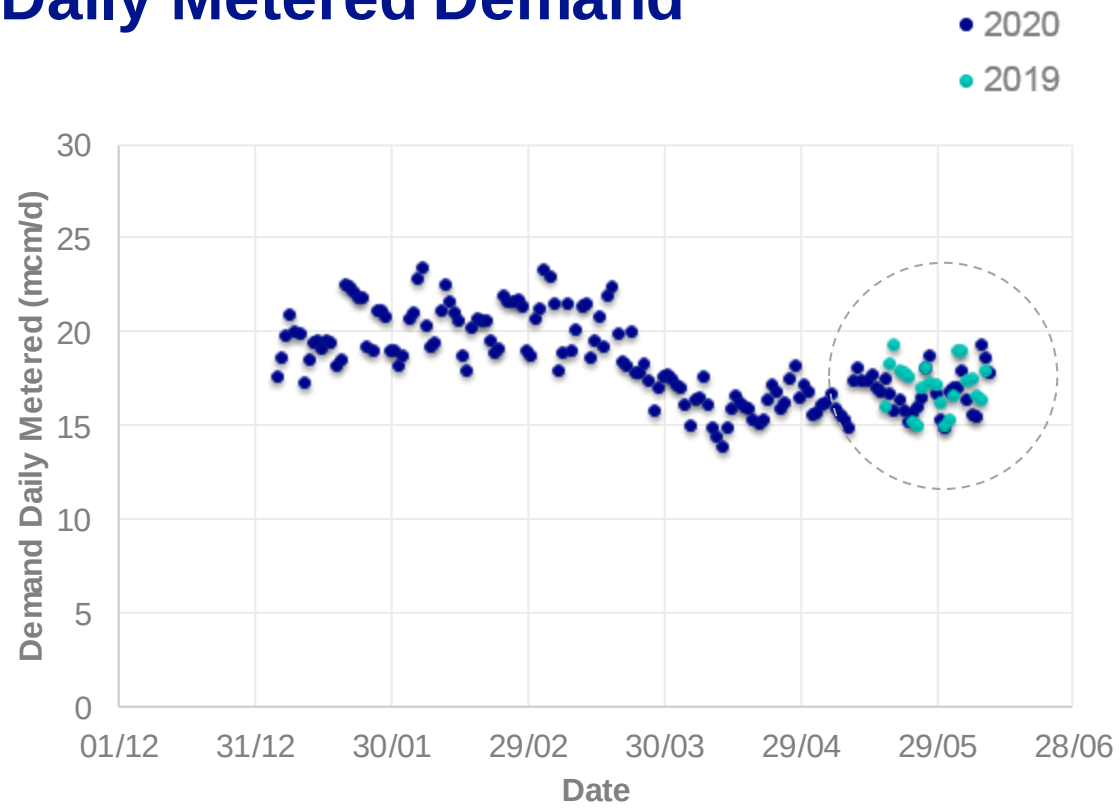
Daily Metered Demand



DM Demand has gradually increased after a drop during the initial lockdown

Load Band	Therms per Year	
NDM < 73MWh	< 2500	Single House
NDM 73-732Mwh	2500 – 25000	Large Block of flats or commercial premises
NDM > 732Mwh	> 25000	Medium sized Industrial premises
DM		Large Industrial Premises/ Power Stations

Daily Metered Demand



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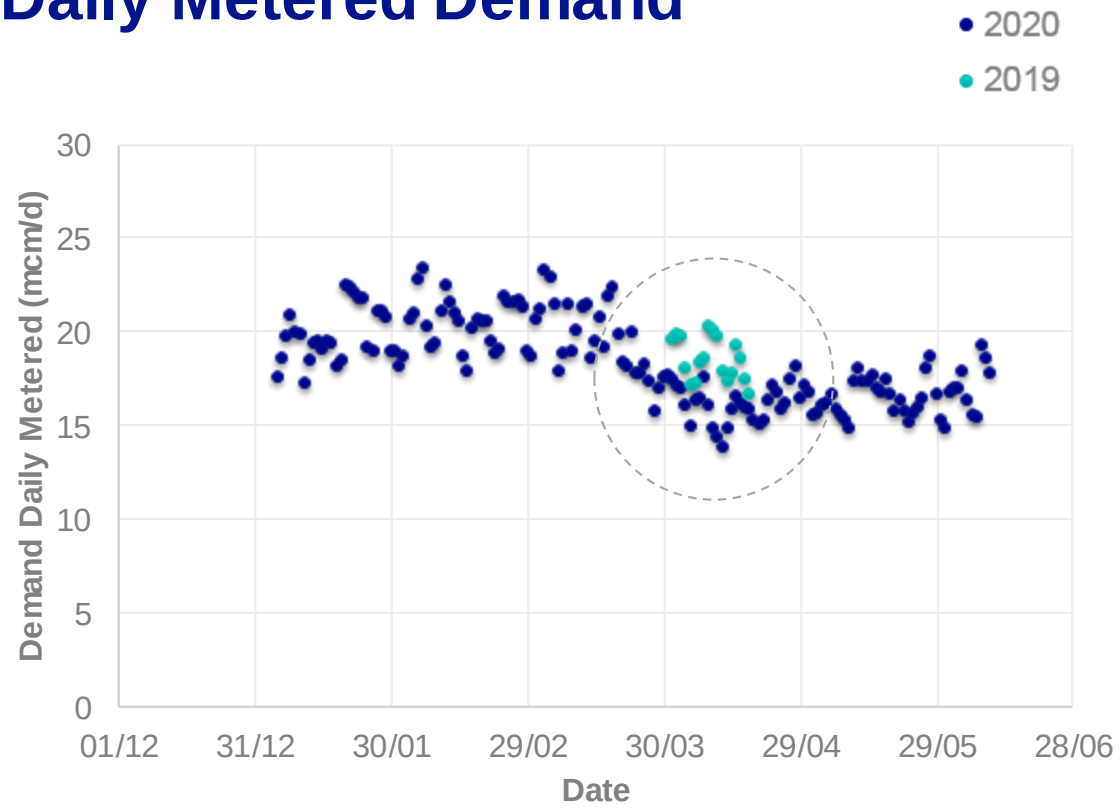

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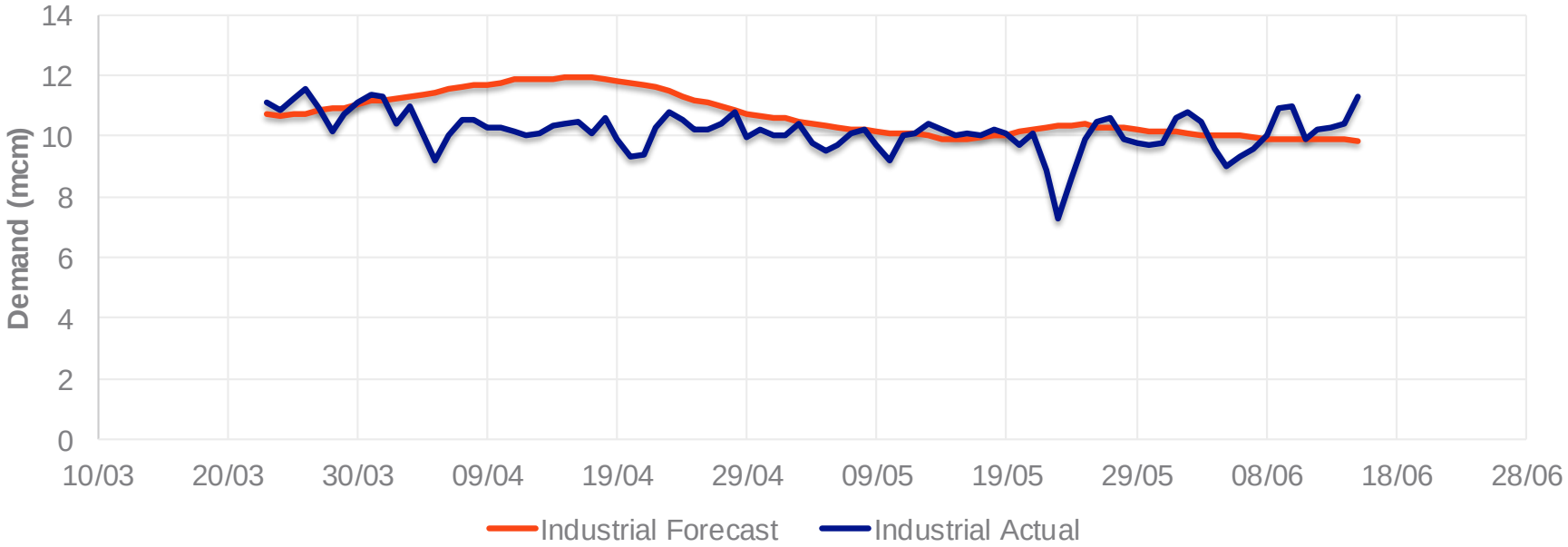
DM		Large Industrial Premises/ Power Stations

Demand Update: NTS Industrial

After a drop during late March/April, Industrial Demand has generally been very similar to expected



National Grid Ops Forum: Gas Market Insight

Thomas Rodgers, Deputy Editor, Gas in Focus

ICIS brings global presence and understanding

Largest energy, petrochemical and fertilizer market information provider globally

Global staff of 600 spread across five continents

ICIS is a division of Risk and Business Analytics, part of the RELX group, a FTSE 100 company with market cap of $48bn

Join at slido.com #GasOps20

ICIS energy market intelligence

European gas specialists

News, analysis and pricing benchmark for Europe's Dutch TTF and UK NBP wholesale gas markets

Power and Carbon markets

Market leading coverage of European power and global carbon markets including RGGI and California cap and trade

LNG

Largest specialised analyst and editorial team focused on global LNG markets, with coverage centred on LNG EDGE analytics platform

Emerging markets

Groundbreaking analysis and coverage of emerging global gas markets such as China and Mexico

Agenda

01 NBP prices in a global context

02 COVID-19 impact on other major European markets

03 European storage glut and supplier response

04 Global LNG: US supply and Asian demand

05 Liquidity spotlight: The rise of the TTF

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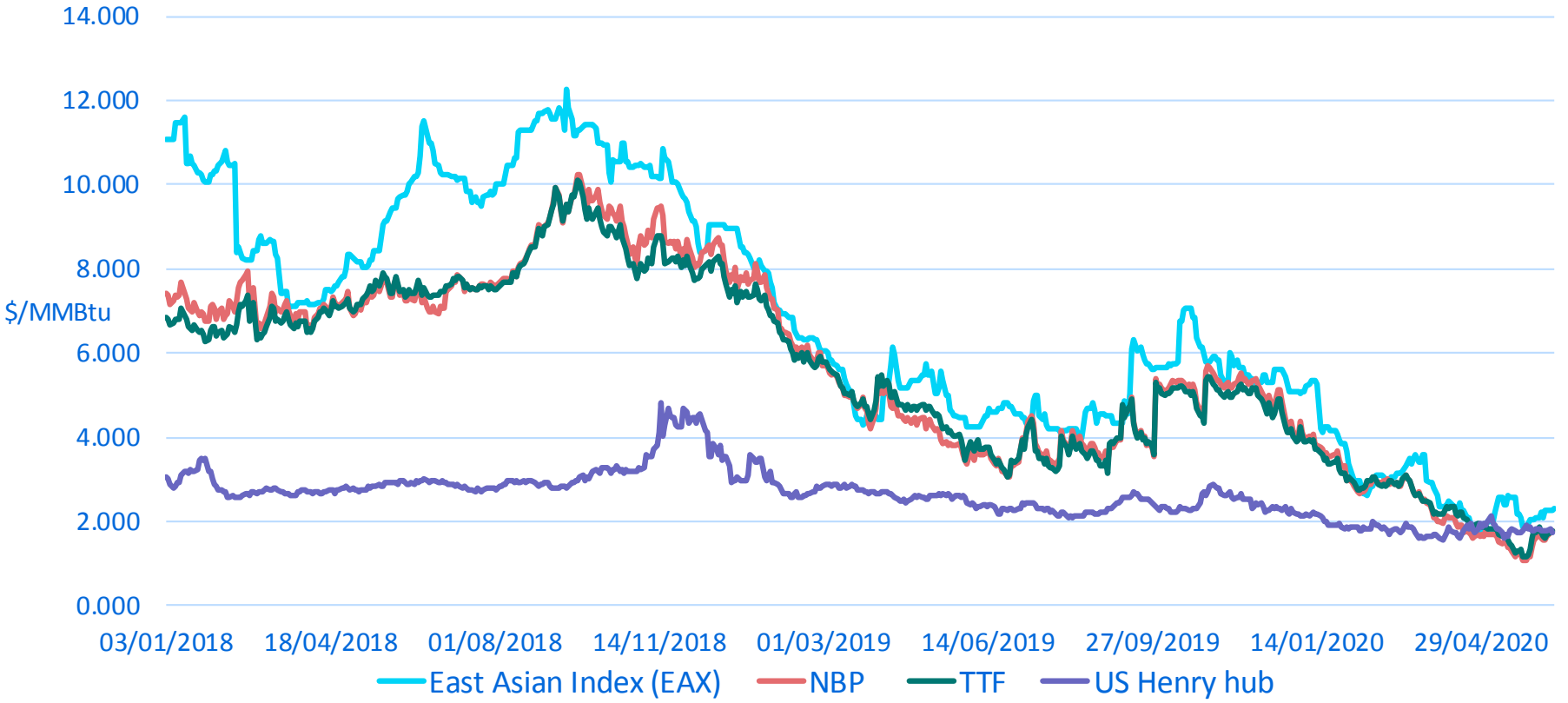
Global convergence



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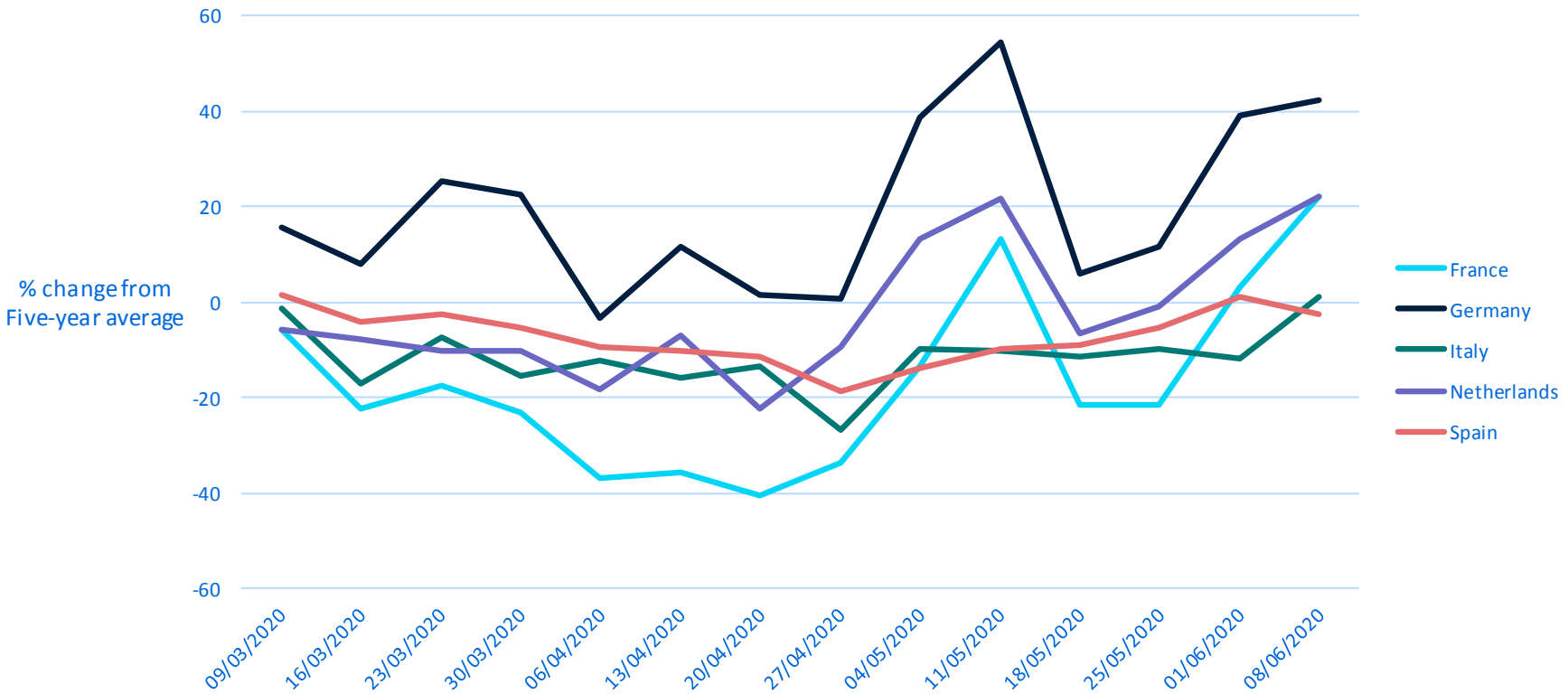
COVID-19 impact on other major European markets



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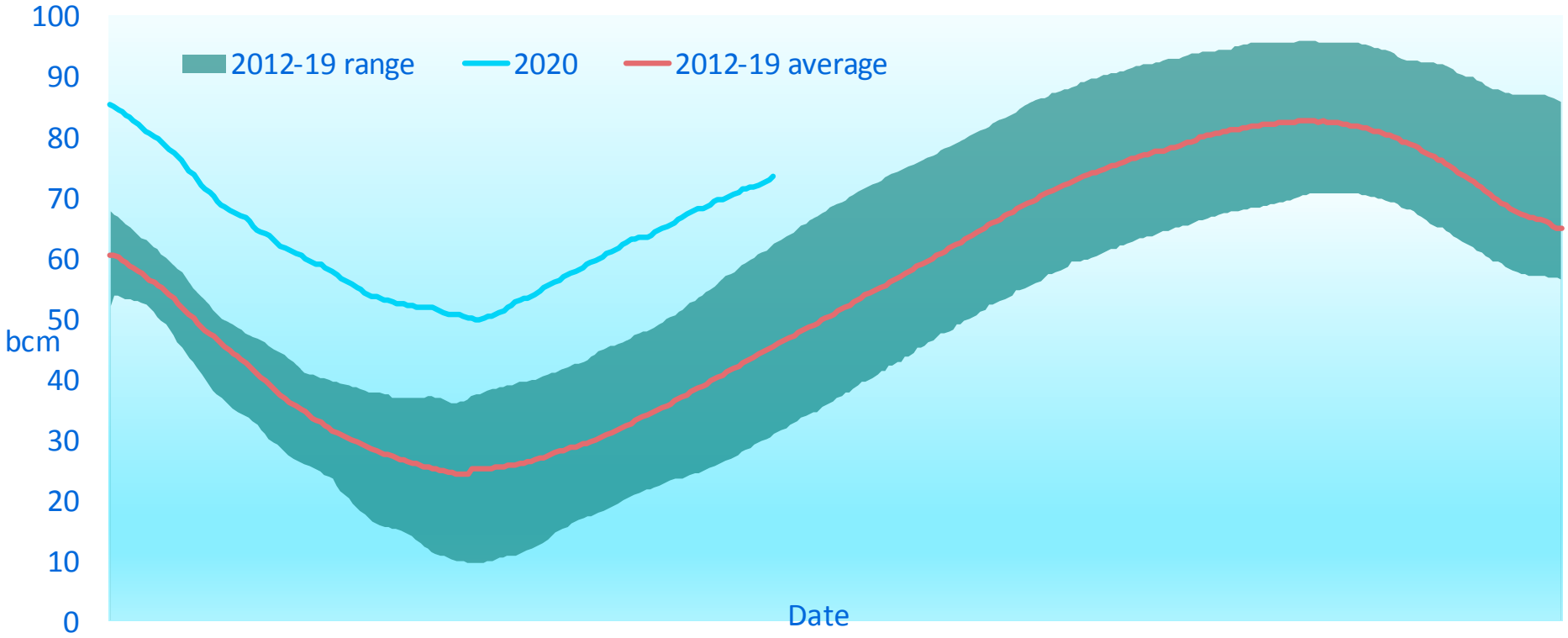
Europe filling up



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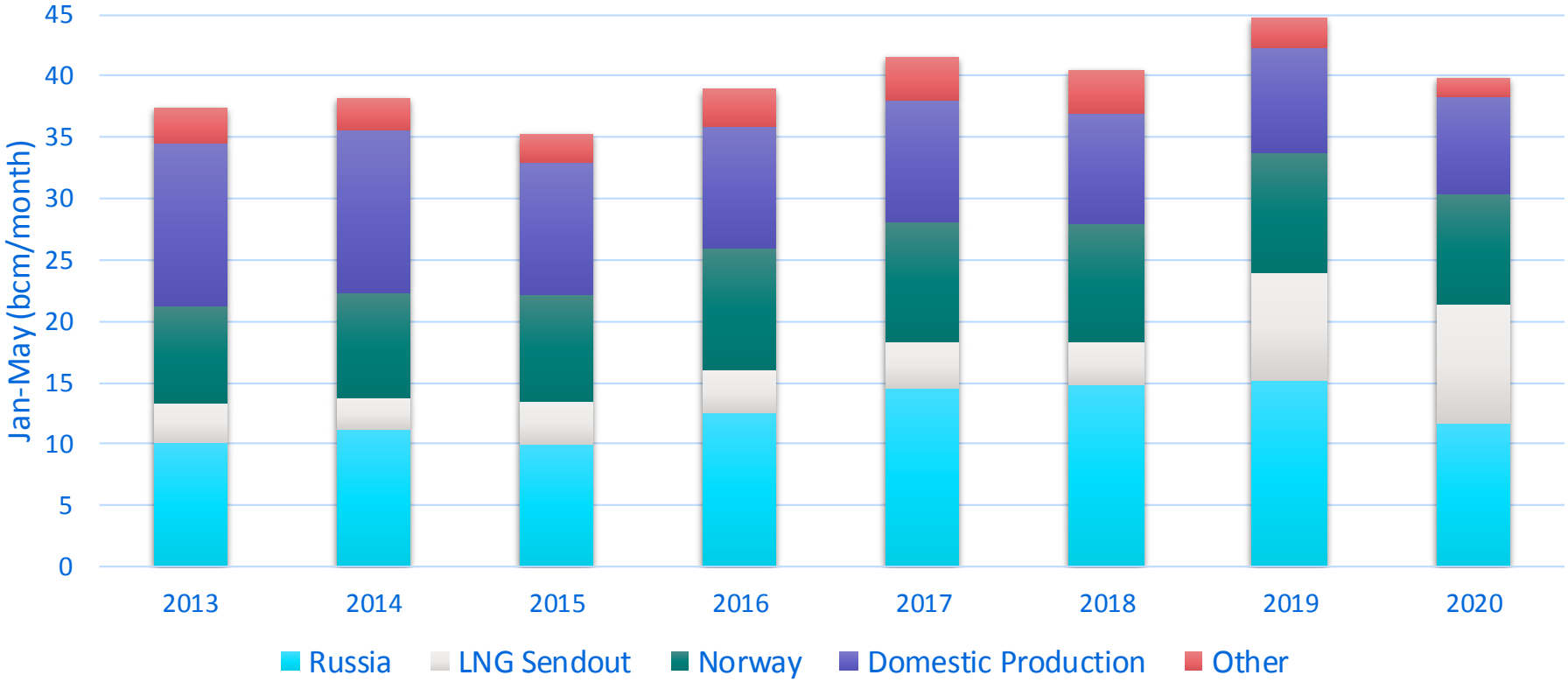
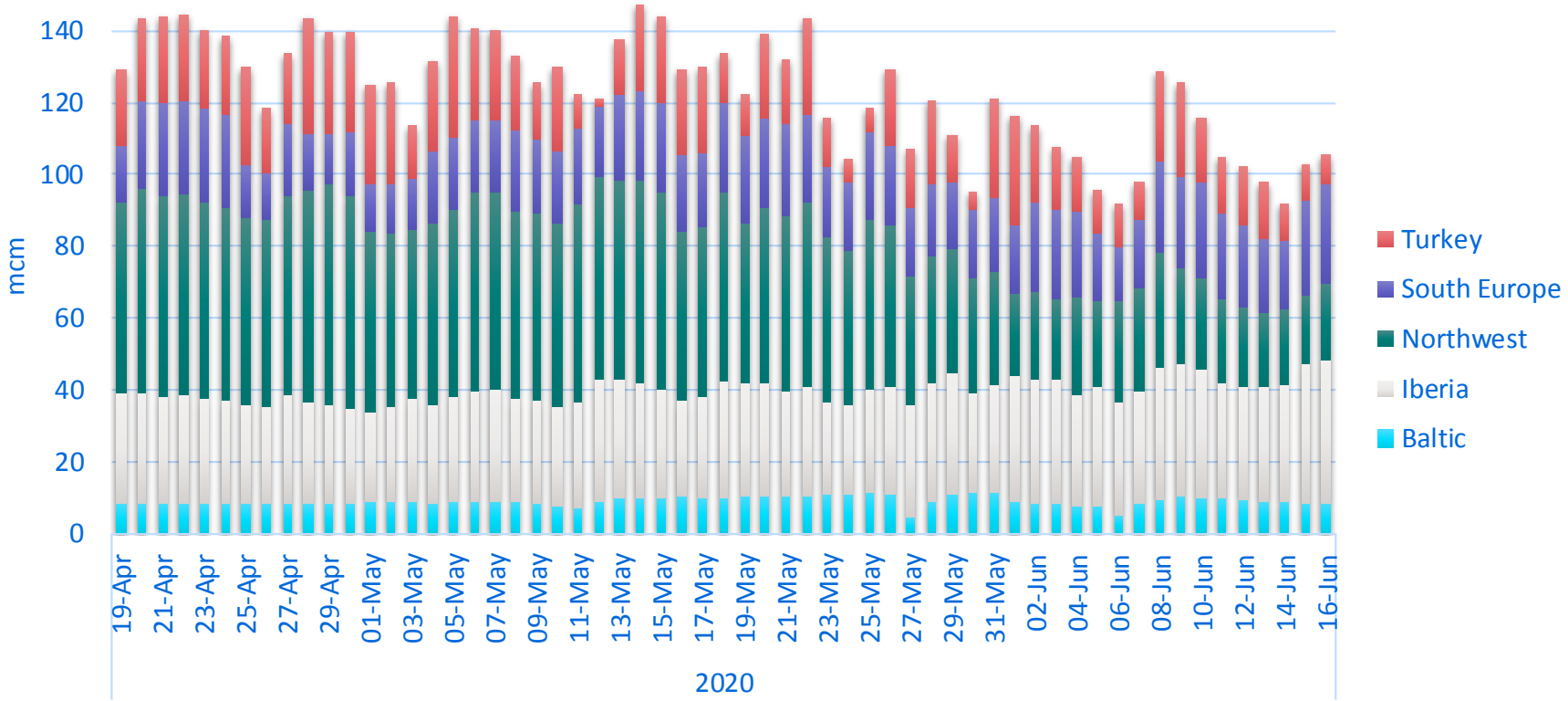
Surce: Storage operators

Supply adjustment



LNG squeeze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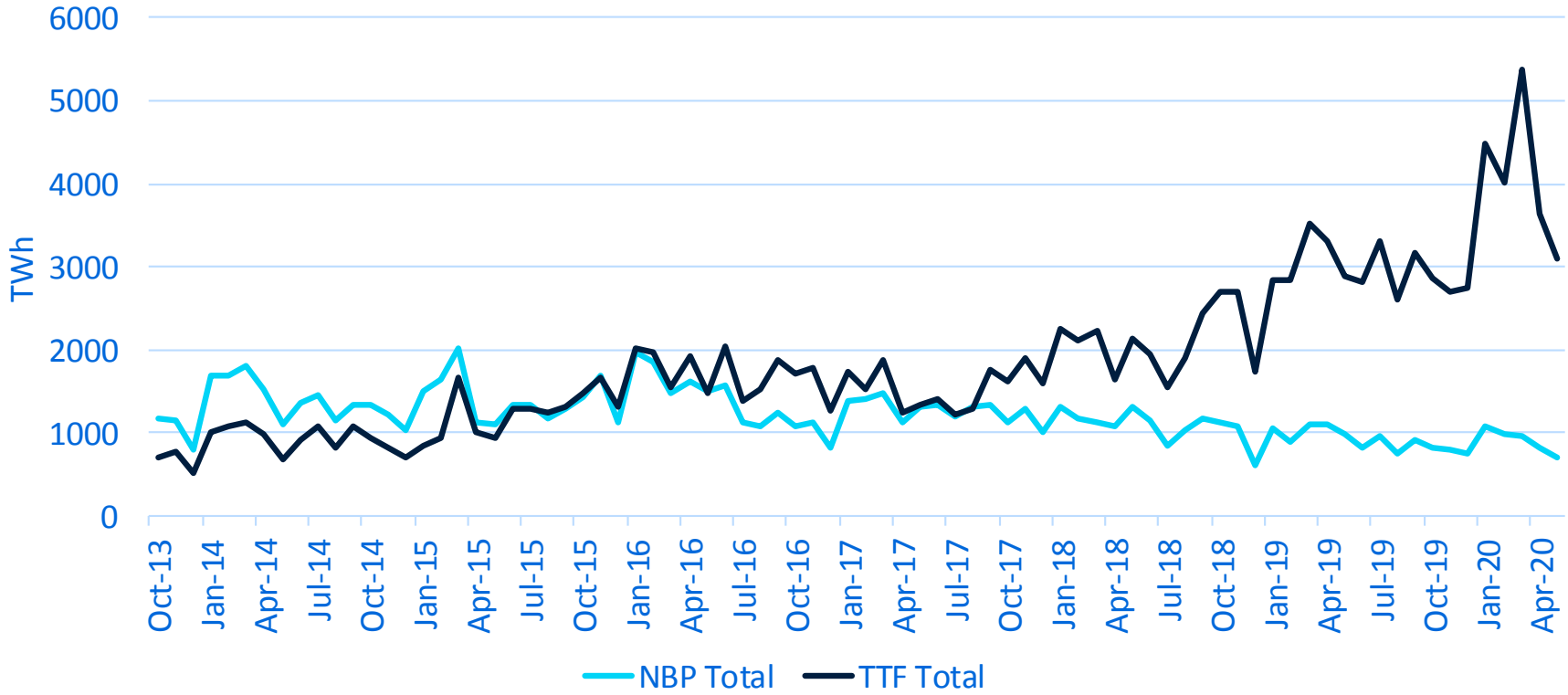
Baltic

TTF liquidity usurps NBP as European benchmark



Join at slido.com #GasOps20

Contact information:
Thomas Rodgers, thomas.rodgers@icis.com

Thank you

Gas Transmission

UNC 0678: Gas Transportation Charging Changes

Colin Williams
Commercial Codes Change Manager

nationalgrid

NTS Transportation Charges: Changes being implemented for October 2020

Changes: Uniform Network Code (UNC) Modification proposal 0678A

- Ofgem approved UNC 0678A on 28 May 2020 to be effective from October 2020
  - https://www.ofgem.gov.uk/system/files/docs/2020/05/unc678_-_decision_0.pdf
- Postage Stamp pricing for Transmission capacity reserve prices (i.e. one Entry and one Exit price irrespective of geographic location) with the payable price changing each year
  - Except for long term Entry capacity booked before 6 April 2017
- All capacity reserve prices the same (annual, daily, etc) except:
  - 10% discount to reserve prices for interruptible / off peak capacity
  - 50% discount to reserve prices for Storage Capacity
- Managing Transmission Revenue Recovery within year via capacity-based charges.
- There is no charging product for managing inefficient bypass (this is being developed separately). This arrangement is known as “Shorthaul”.
- Non-Transmission Charges (broadly aligning to SO) recovered via a commodity charge.

NTS Transportation Charges: Changes being implemented for October 2020

Changes: Uniform Network Code (UNC) Modification proposal 0678A

- Charges for October 2020 published 05 June 2020. The published prices / data included:
  - Final Transmission Services Entry and Exit Capacity Reference and Reserve Prices for Gas Year 20/21. The timing provides the reserve prices for the Annual IP auctions due to take place in July 2020 and all subsequent auctions for capacity for Gas Year 20/21.
  - Forecasted Contracted Capacity used to set the reference/reserve prices
  - Indicative Non-Transmission Charges for October 2020

- Further supporting information will be issued shortly.
- There will be an opportunity to hear more on the charges and the key inputs that drive the charges on a call hosted by National Grid on Tuesday 23 June at 2pm for 1hr.
  - If you wish to join this call, please contact: box.NTSGasCharges@nationalgrid.com and joining details will be sent

NTS Transportation Charges: Managing Inefficient bypass in the charging framework

Managing Inefficient Bypass

- There is no charging product for managing inefficient bypass (this is being developed separately) effective from 1 October 2020 following implementation of UNC0678A. This arrangement is also known as “Shorthaul”.
- National Grid is leading on developing a shorthaul charge to work with new charging arrangements.
- UNC Modification 0728 was raised 09 June 2020, with a request for urgency. There are four alternatives to UNC0728. This follows on from our recent proposal UNC0718/A/B/C.
- All the proposals are offer a capacity discount on a conditional basis and two of the four proposals also offer a discount to General Non-Transmission Charges.
- We are aiming for October 2020 implementation, or as soon as possible in line with Ofgem decision following conclusion of an expedited (urgent) UNC change process.
- Urgency for UNC0728/A/B/C/D was granted on 12 June. Consultation runs to 26 June.
  - https://www.gasgovernance.co.uk/0728

Questions and Contact information

Regulatory changes and new methodology

Email: box.gsoconsultations@nationalgrid.com

General charging questions on prices and publications

Email: box.NTSGasCharges@nationalgrid.com

Capacity questions

Email: capacityauctions@nationalgrid.com

Questions and Contact information: The Capacity FAQ Document

Available to download via National Grid website:
https://www.nationalgrid.com/uk/gas-transmission/document/128696/download

Q. *Why hasn't my bid been accepted? Why have I only partially received the amount of capacity I bid for?*

Q. *Can I sell unwanted capacity I have purchased?*

Q. *How will the implementation of UNC Modification 678A, as of 1st October 2020, affect the price of future capacity bookings?*

Q. *How are overruns calculated?*

Q. *Can I assign my capacity at an NTS Exit Point to another user at the same location?*

Q. *What are Entry Trade, Substitution and Transfers?*

Capacity Team
01926 654057
capacityauctions@nationalgrid.com

Gas
Transmission

Gas Market Change Contact Details

nationalgrid

Gas Market Change – Contact Us

COVID-19 Mods

- In response to Covid-19 impacts a number of Urgent modifications have been raised by the market to address distinct challenges or introduce temporary arrangements.
- Darren Lond
  Darren.lond@nationalgrid.com
  07769 724892

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 Blending

- To assess the operational feasibility and regulatory / commercial issues associated with offering gas quality blending services at NTS entry points
- Phil Hobbins
  philip.hobbins@nationalgrid.com
  07966 865 623

Access Review

- To review the principles and 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

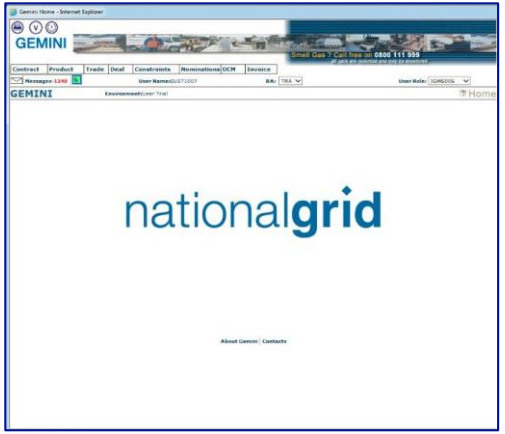
GEMINI Change Programme

Sarah Carrington
Comms & Engagement Lead
(GEMINI Change)

nationalgrid

What is Gemini?

Gemini is a suite of applications used to manage the transportation of gas on the National Transmission System. The platform is used for gas capacity management, capacity trading, energy balancing and billing.



There are 2 Gemini applications:

1. Gemini - used to manage gas coming on to the NTS (Entry)
2. Gemini Exit – used to manage gas coming off the NTS (Exit)

Xoserve are our service provider and are responsible for the management and operation of Gemini on behalf of National Grid. Xoserve also generate invoices on our behalf.

Data from Gemini flows through to several other systems such as MIPI, GCS, PRISMA, UK Link, adjacent TSO and DN's.

Gas Transmission

GEMINI Re-Platforming Project

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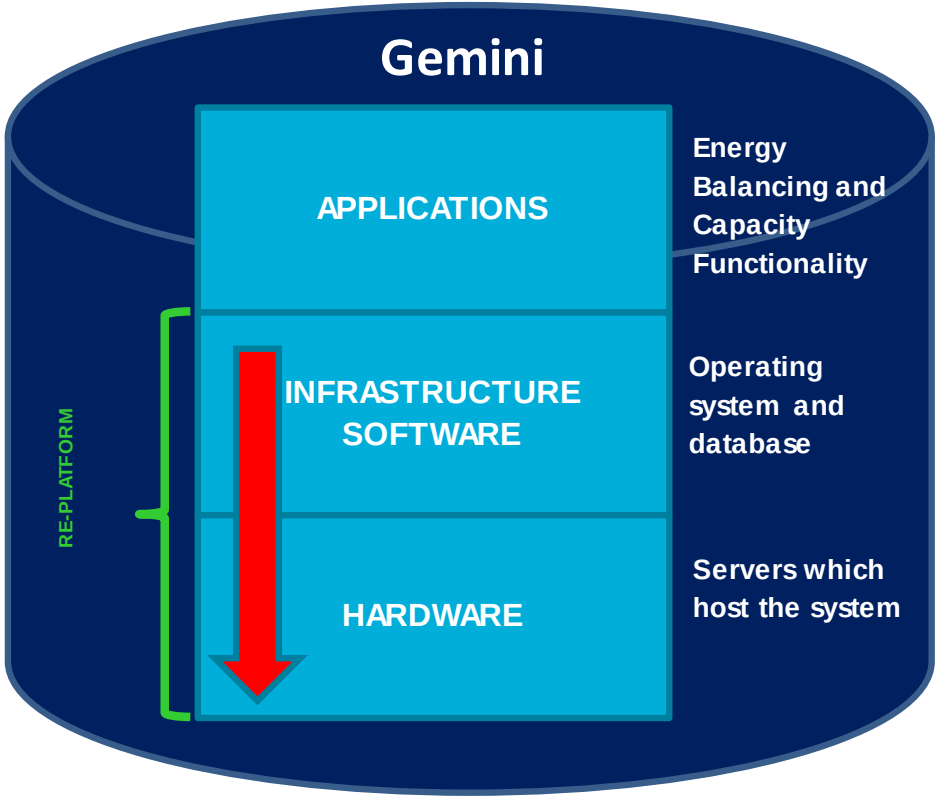
Gemini Re-Platforming Scope



Gemini Re-Platforming – Impacts

External Impacts

- Citrix log in
- Shippers and other Gemini Users have taken the opportunity to take part in testing their connectivity

There will be an extended Gemini outage on the 5th July.

Details are covered on the next slide.

Gemini Re-Platforming - Extended Outage

- **Extended Outage window is currently anticipated to be between 8 to 12 hours**
- **Provisional timescales for the Gemini Re-Platforming implementation are as follows:**
  - **Gemini Maintenance Window: 03:00 to 5:00**
  - **Extended outage: 05:00 to 13:00**
  - **In the event of a rollback an additional outage will be required from 13:00 to 17:00**
- **Some processes will be impacted during the outage which include Nominations and the Within Day Auctions. Gemini will catch up with any nominations submitted and the Within Day Auctions will run later on the same day**

Gemini Re-Platforming – Communications

nationalgrid

Gemini Re-Platforming Project & External Connectivity Testing

24th February 2020

Dear colleague

The purpose of this email update is to ensure you are aware of the **Gemini Re-Platforming** project planned to go live on 5th July 2020 and the associated opportunity to take part in **External Connectivity Testing** planned for 13th April - 8th May.

The Gemini Re-Platforming project is replacing ageing infrastructure and Gemini will be moved to a new cloud based solution, with existing Gemini functionality replicated in the new design.

- **Details circulated via the Xoserve Change Pack, Xoserve Change Managers meeting, Gas Ops Forum, Data Community Site and external emails**
- **ANS will be sent 1 week before go live**
- **Industry comms during the weekend of the 4th/5th July**
- **Outcome confirmed 6th July**
- **ANS to confirm go live**

Xoserve Service Desk 0845 600 0506

NGIT Service Desk 0800 917 7111

Project Queries .box.gasops.businessc@nationalgrid.com

Gas Transmission

GB Charging Project

nationalgrid

GB Charging Project UNCMOD678A – Impacts to Gemini Users

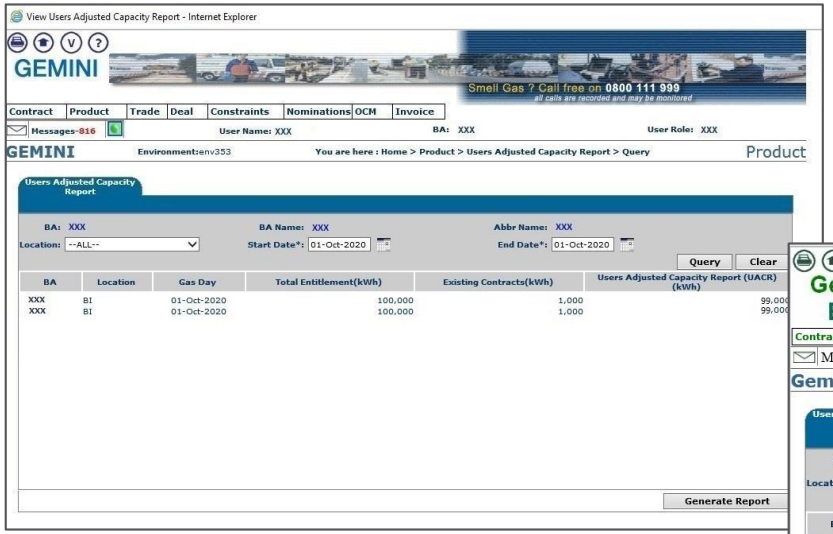
External Impacts

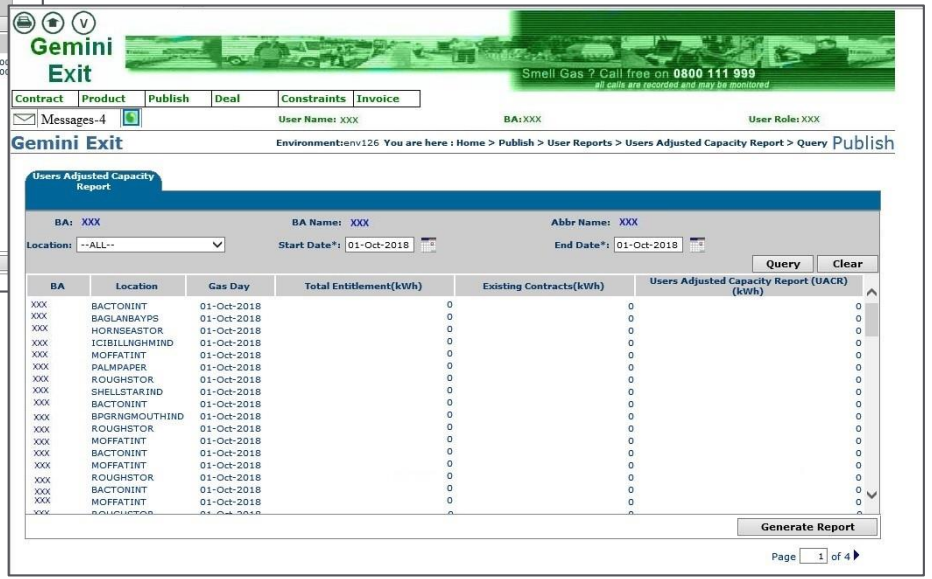
- Changes to Charge Types and Invoices
- Amended Gemini Screens:
  - Bid Information Report
  - Capacity and Price Information Report - Entry
- New Gemini Screens:
  - Users Adjusted Capacity Report – Entry
  - Users Adjusted Capacity Report - Exit

Charge Types and Invoices

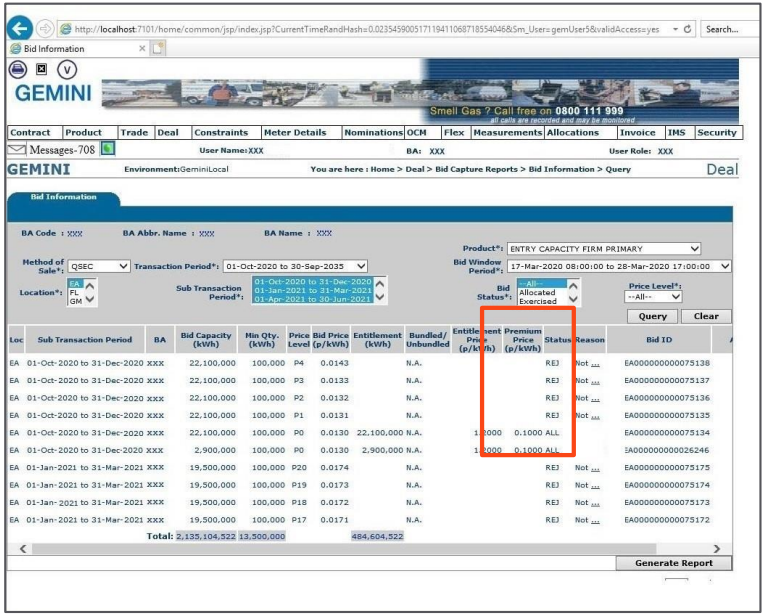
- New charge types created to align with the required charges under UNC0678A
- New charge codes to be added into Gemini and UK link
- In addition, existing sites that are currently on the NTS Optional Commodity Rate will be end dated for the 30th September
- Full details are in the Xoserve Change Pack circulated on the 5th June

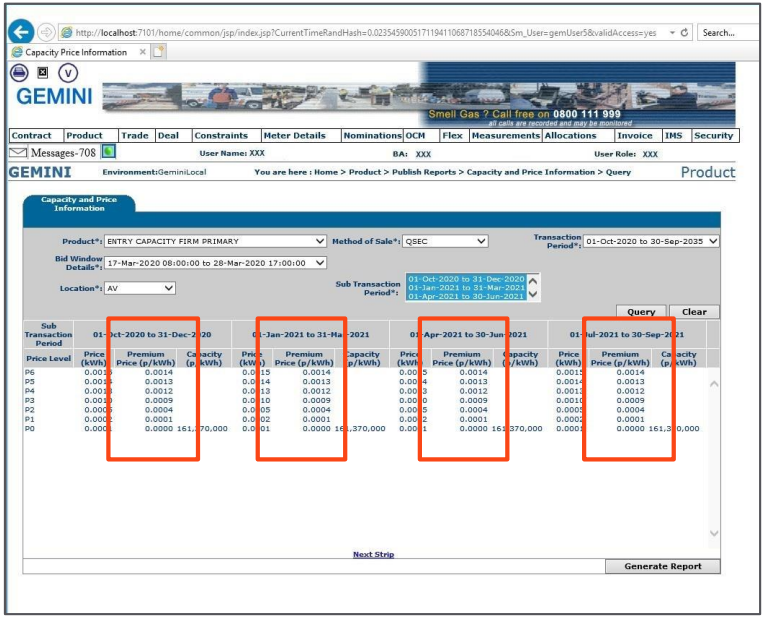
Users Adjusted Capacity Report – Entry and Exit





Bid Information Report & Capacity and Price Info Report





Gas Transmission

GEMINI System Enhancements Project

nationalgrid

Overview

- **The scope of the Gemini System Enhancements (GSE) project includes a number of items that will improve the Gemini application**
- **Items are categorised under the themes of APIs, Balancing, Capacity, System Performance and Security/User Access**
- **The external Gemini user community are invited to participate in workshops to add further detail to the requirements:**
  - Virtual workshops will be held on various dates between 22 June – 24 July 2020
  - Please register your interest by completing the following survey:
  - http://www.surveymonkey.co.uk/r/KDBPNYR

Project Mailbox : box.Xoserve.GeminiSystemEnhancements@Xoserve.com	
National Grid Ian Bennett Project and Change Delivery Manager Ian.Bennett1@nationalgrid.com	**Xoserve** Hannah Reddy Domain Consultant Hannah.Reddy@xoserve.com
If you require further information please contact the team or the project mailbox	

Timeline

December 2017 – In collaboration with Shippers, National Grid generated a list of "Gemini Pain Points"

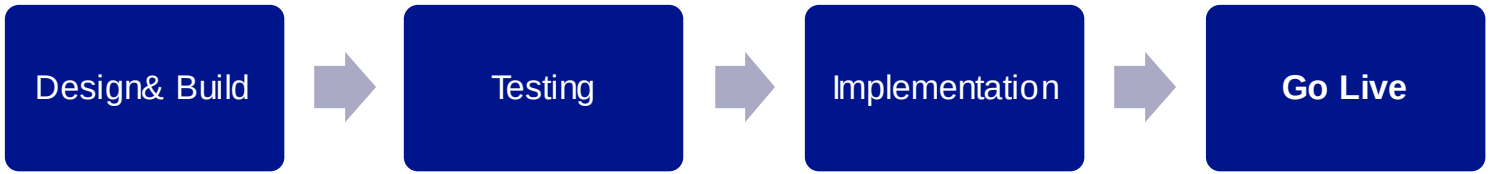
June 2018 – National Grid hosted an event which categorised and prioritised the pain points

September 2018 – Feasibility and Analysis undertaken to investigate possible solutions

January 2019 – Requirements baselined

February 2020 – National Grid funding approved

May 2020 – National Grid/Xoserve commenced project



Central Switching Service (CSS) Update

Andy Baugh
CSS Stakeholder Relationship Manager

Rob Westwood
Customer Support Manager

Background & Purpose

Background:

- Ofgem's Switching Programme will radically change the way a customer switches their supplier, both in process and speed (overall intention is next day switching)
- Electricity and Gas suppliers will need to channel their switches via the new Central Switching Service (CSS), instead of via MPAS & Xoserve as of today
- As a result there are consequential changes to Xoserve's systems and processes which will have significant impacts on our customers
- Ofgem intended go live was July 2021 but this is now delayed due to COVID19

Purpose:

- To call out there are significant impacts
- To offer further bilateral calls

CSS Meter Point Scope

- The following meter points are confirmed as being out of scope of the CSS switching processes:
  - Sites directly connected to the National Transmission System (NTS Sites)
  - LPG Supply Meter Points
- Discussions are still ongoing with Ofgem regarding the following:
  - Shared Supply Meter Points
  - Supplier Exempt Sites

Heat Map Assessment – High Level Design Analysis

Version 3

UK Link

- Disable switching functionality for sites in scope of CSS
- Retention of switching functionality for sites out of scope of CSS (e.g. NTS)
- Include new data items & interfaces
- Modification & decommissioning of existing interface files to shippers

DES & BW

- Real time replication of data into BW
- Inclusion of new data items (REL, Switch Status)
- Inclusion of new interfaces, screens & access controls
- Definition of solution options to meet NFRs

Data

- **Cleansing**
- Shipper-Supplier relationship
- Address Data
- Supplier ID association
- **Build of new data items**
- MAP ID, REL, Switch Status
- **Migration to CSS Provider**
- Impacts to Transformation & Validation to be assessed when solution known

Comms Networks

- IX install required should electricity suppliers chose IX
- IX installs required for CSS Provider
- Message Routing

Gemini

- Modification of processes from D-2 to ~D-7 hrs and their impacts
- Engagement with stakeholders on impacts to their processes and subsequent impact to Gemini

MIS

- Real time replication to MIS database from DES/UK Link
- Inclusion of new data items (REL, Switch Status)
- Inclusion of new APIs

NFRs

- Infrastructure /architectural changes (1 hr RTO requirement)
- Realignment of batch processing timelines
- Current requirements have perceived gaps/inconsistencies

Processes

- Maintain Gas Industry Stakeholders
- Maintain Supply Point Meter Register
- Predict, Allocate & Balance Daily Energy
- Settle Meter Point Consumption
- Invoice & Collect Charges

CMS

- High Level Design continues to hold the position that CMS is not impacted

Operation

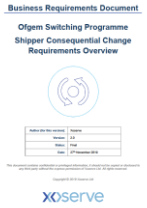
- Business Change – Process changes, new exceptions
- Transitional arrangements – Process Definition
- Service Management – scope impacts

Complexity Levels:

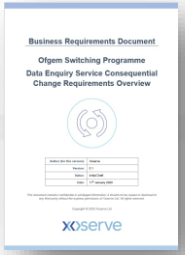
- Not Impacted
- Low
- Medium
- High

CSSC Document Suite

Shipper BRD

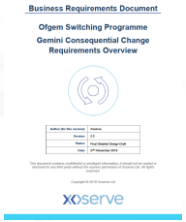


DES BRD



GT / IGT BRD

Gemini BRD



E2E Process Charts

5 Change Packs

- May 2020
- April 2020
- February 2020
- October 2019
- September 2019

Files & Formats Change Summary

Link to new files and formats:

https://xoserve.sharepoint.com/sites/UKLink/Shared%20Documents/Forms/AllItems.aspx?slrid=1f26249e%2D008a%2D4000%2D7952%2D119367f170eb&FolderCTID=0x0120000E46E5120CABBB4D996C1436031DED72&viewid=e6de368e%2D7c5e%2D429f%2D8833%2Dc10a3c797dce&id=%2Fsites%2FUKLink%2FShared%20Documents%2F3%2E%20UK%20Link%20Interface%20Documents%2F3c%2E%20For%20Approval%2FCSSC%20Final%20Version%20File%20Formats

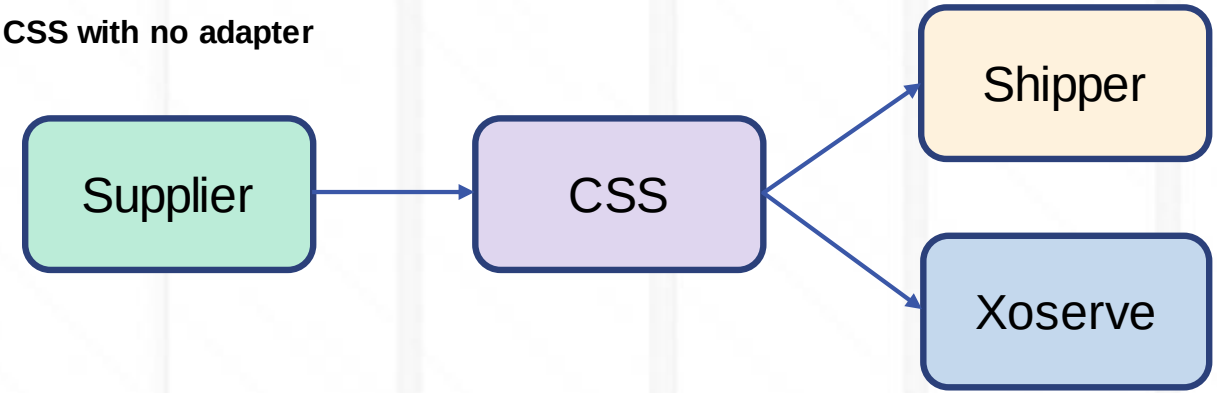
Change of Trigger

Change of Switch Trigger

Current

21 Calendar Days

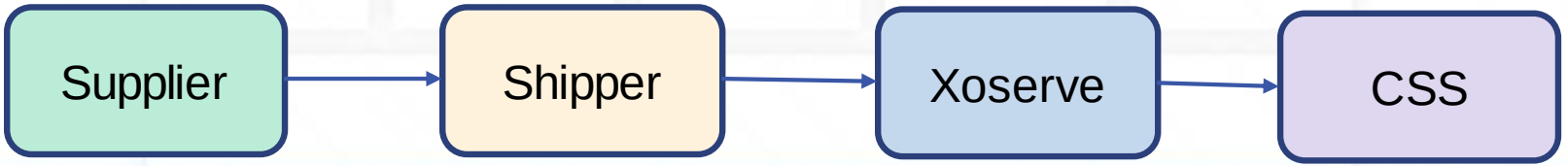
Future CSS with no adapter



5 Working Days

Then 1WD domestic and 2WD non domestic

Future CSS with SwitchStream



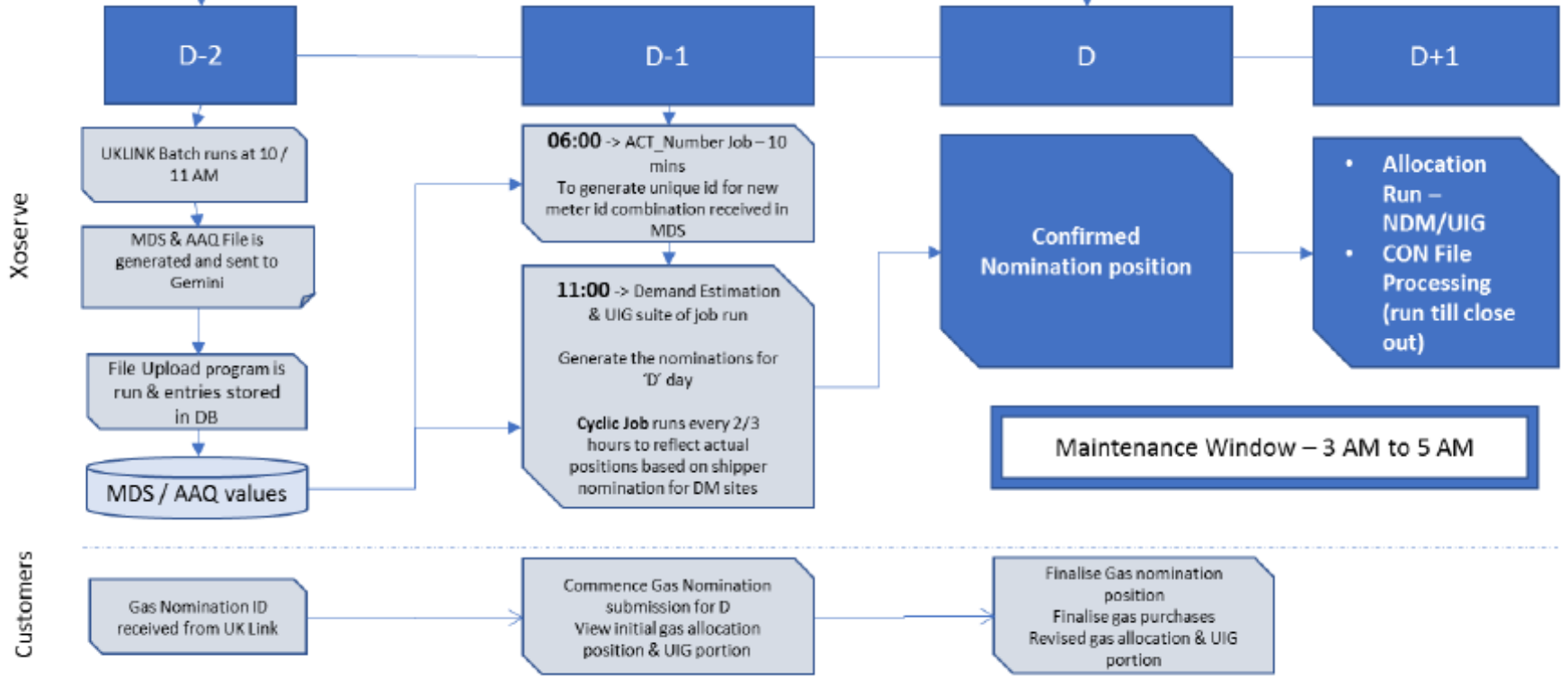
Changes to Gemini Timings

Existing Process

Switch can be requested anytime between D-5 and D -30

Switch is secured with status CO @00:00:00 on D-2

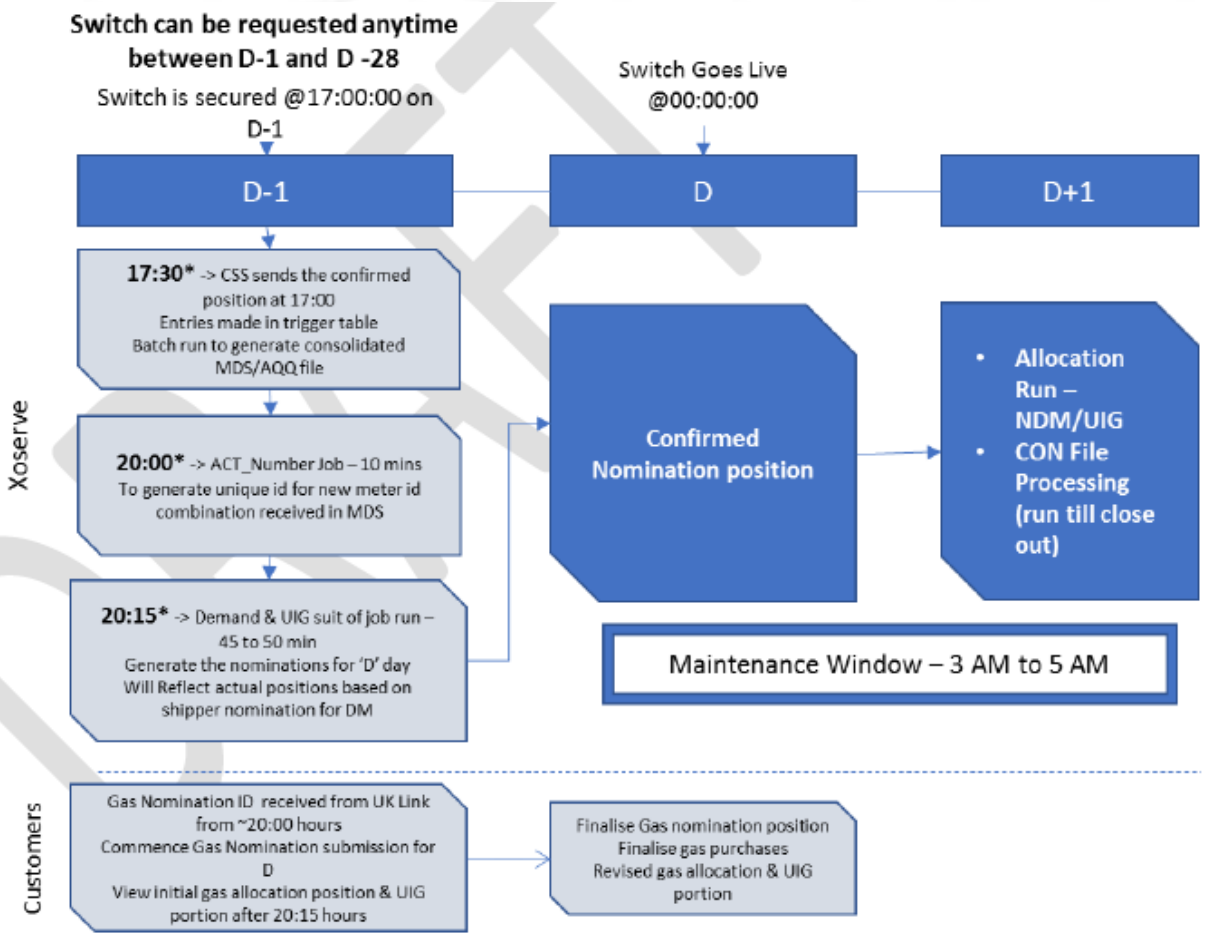
Switch Goes Live with status LI @00:00:00



POST CSS

- Owing to CSS, if the file generation is moved to D-1, consideration is information will be received by 17:30
- SAP ISU could take c1.5 hours to update custom tables and generate MDS/AAQ files
- Gemini will then need to schedule ACT_NUMBER job on receipt of MDS/AAQ file
- Run the Demand Estimation and UIG suite of jobs
- Considering concurrency with other jobs (which has potential to overrun as well), infrastructure capacity needs to be assessed
- 10% increase in 'To-Be' volumes has been considered for MDS/AAQ process
- **Impacts to external stakeholder unknown at this stage**

- ***All timings are indicative and need further analysis***



CSSC on a Page

Switching Timescales and Trigger

- From 21CD to 5WD in 2021
- To 1WD (domestic) 2WD (non-domestic) at a later date TBD
- Moves from Shipper led to Supplier led
- So Shipper loses control and has less notice

Registrations & Settlement Data

- CNF process removed for CSS sites
- Nominations are expected for class 1 & 2 and optional for large classes 3 & 4 meter points.
- Shippers sending settlement details for Class 1 & 2 without a prior NOM, will see these rejected and CDSP will apply default values

Gemini

- Notice reduces from D-2 days to D-7 hours
- Trading commences from 9pm on D-1
- New file which will be sent to Shippers containing their Gemini Activity Number

Opening Reads

- Submitting reads prior D will no longer be possible
- The current 10 day window moves from D-5 – D+5 to D-D+10
- Where a reading is provided between D+1 and D+10 a estimate will always be generated for D

Supplier Registration Deactivations

- Will be Supplier led not Shipper led
- Suppliers will need to ensure RMP set to Dormant or Terminated before Suppliers send Deactivation Request

Forced Registrations

- Xoserve will notify CSS
- CSS will process as a normal registration

SPAA Updates

- Xoserve will regularly sync data with CSS
- Updates provided by the gaining Shipper will only be validated against the new CSS registration statuses

Data Enquiry Service

- New search screens
- New data items
- RMP status
- MAP ID
- Inclusion of REL
- Data permission changes

“SwitchStream”

Removes complexity and effort associated with the changes required to connect to the Central Switching Service (CSS) for gas and electricity markets

Market Trials

- In addition to the Programme testing, Xoserve are hosting voluntary testing workstream
- CSS Consequential Market Trials Working Group (CCMTWG)
- Reduces risk of waiting until final stages of programme testing

SwitchStream: Product update

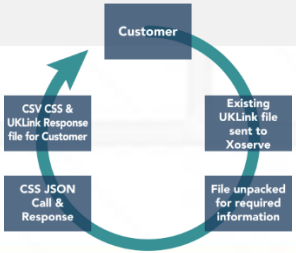
SwitchStream services

Option 1

Provides the ability to support gas & electricity messages utilising existing industry registration files

Benefits

- ✓ We connect to CSS on your behalf
- ✓ We manage CSS mandated security on your behalf
- ✓ You can reuse existing technology and infrastructure investments
- ✓ We generate and digitally sign messages between us and CSS
- ✓ You can use existing switching processes

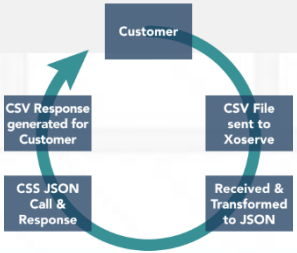


Option 2

Provides the ability to support all gas and electricity messages through the creation of new CSS registration files

Benefits

- ✓ We connect to CSS on your behalf
- ✓ We manage CSS mandated security on your behalf
- ✓ You can use new file formats aligned to your new switching processes
- ✓ You can reuse existing technology and infrastructure investments
- ✓ We generate and digitally sign messages between us and CSS

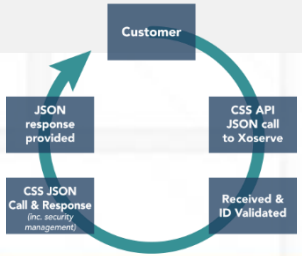


Option 3

Provides the ability to support all gas and electricity registrations using our APIs through a single route.

Benefits

- ✓ We connect to CSS on your behalf
- ✓ We manage CSS mandated security on your behalf
- ✓ We simplify market interaction by ensuring consistancy of API messages
- ✓ We generate and digitally sign messages between us and CSS
- ✓ Our API roadmap will enable consistant customer interactions



Further General Info

- Xoserve website – Switching Programme page
  https://www.xoserve.com/change/switching-programme/
- The full set of to-be business processes are available on www.xoserve.com/change/switching-programme/
- A log of all decisions made during our CSSC Extraordinary DSG meetings has been added to the Switching Programme site
  www.xoserve.com/change/switching-programme/
- CSSC Change packs:
  https://www.xoserve.com/change/change-packs/?search=
- Ofgem Switching Programme website
  https://www.ofgem.gov.uk/gas/retail-market/market-review-and-reform/smarter-markets-programme/switching-programme
- SwitchStream service
  https://www.xoserve.com/services/switchstream/
- Xoserve CSSC Market Trials Working Group
  Jo.Galloway@xoserve.com
- Andy & Rob

Andy.baugh@xoserve.com
07769 177941

Robert.westwood@xoserve.com
07502 280641

We’re here to help

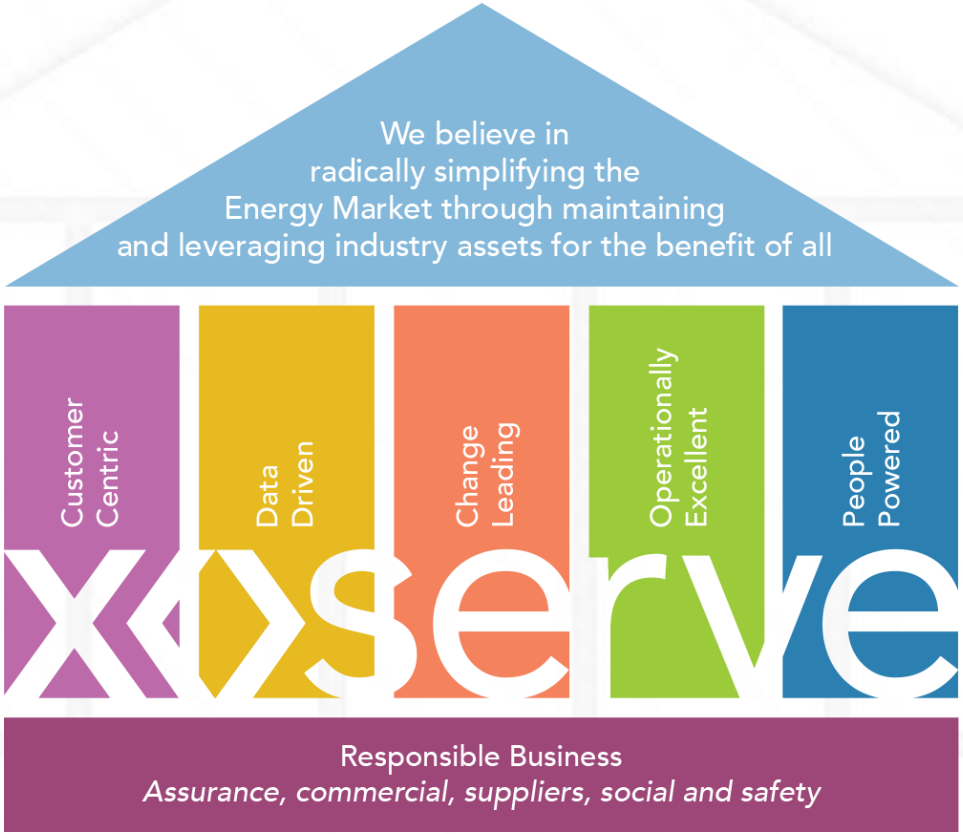
If a separate call would be helpful please contact:

- Rob Westwood
- 07502 280641
- Robert.Westwood@Xoserve.com

- Andy Baugh
- 07769 177941
- Andy.Baugh@Xoserve.com

Feedback and suggestions

What can we do for you?



Gas Transmission

Close

Joshua Bates
Operational Liaison & Business Delivery Manager

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Next Forum

The Next Operational Forum will take place on the 17th September after the summer break

Please send any requested topics to:

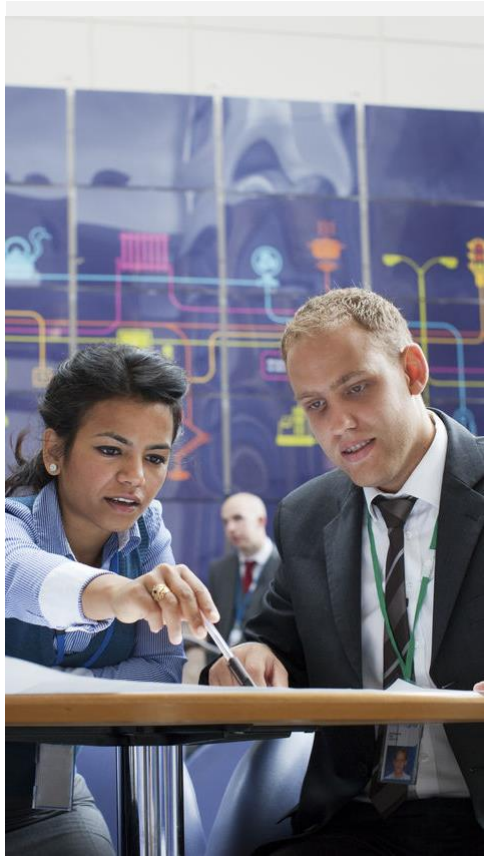
Box.OperationalLiaison@nationalgrid.com

Register now at:

https://www.eventbrite.co.uk/e/gas-operational-forum-september-2020-tickets-85099291271

The Guest slot in September will be from the Carbon Capture & Storage Association

Carbon Capture & Storage Association



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