

Gas Operational Forum



20th April 2017 10:30AM

Radisson Blu Hotel, 130 Tottenham Court Road, London

Agenda

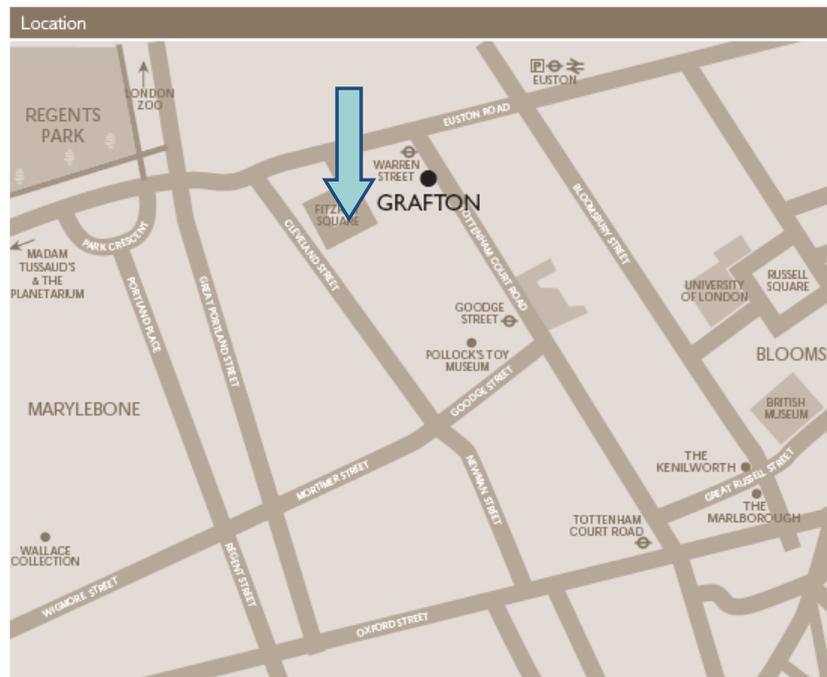
- 10:30 - **Previous Ops Forum Actions**
- 10:35 - **Operational Overview**
 - Supply Breakdown
 - Demand Breakdown
- 10:45 - **EU Gas Regulatory – Change Programme**
- 10:55 - **IP Annual Yearly Auctions & Enduring Exit Capacity – UNC Modification 0598**
- 11:05 - **UNC Modifications – Update From Transmission Workgroup**
- 11:15 - **Change Programme – GB Remit/MIPI Stats**
- 11:25 - **ICE Endex**
- 11:40 - **Break**
- 11:55 - **NTS Pressures**
- 12:25 – **AOB**

Health & Safety Brief

No fire alarm testing is planned for today.

In the case of an alarm, please follow the fire escape signs to the evacuation point.

At the rear of the hotel by Fitzroy Court



SLIDO – Interaction Tool

Gas Operational Forum – April 2017

Join at

Slido.com

Login Free WIFI (Open Network):

RadissonBlu

#3415

slido

Actions From Previous Forums

Discussion Topic	Action	Due Date
Maintenance Update	Requested to provide an overview of the 2017 Maintenance plans.	Q1 2017 – Complete
MIPI Data Inconsistencies	To provide an update to the industry, of all remaining data discrepancies on MIPI	Published News Item March 31 st 2017
MIPI Reports	NG as a start to look at what data is being extracted through API hits and which reports are most utilised to determine what data is important to the industry.	April Ops Forum
Capacity release	It was agreed that National Grid would bring back some examples of timings and the factors that are taken into consideration around the release of within day capacity.	Q2 2017
Unplanned Outages	NG to share how the price of the capacity product does / or doesn't feed into our REMIT unplanned outage process.	Q2 2017

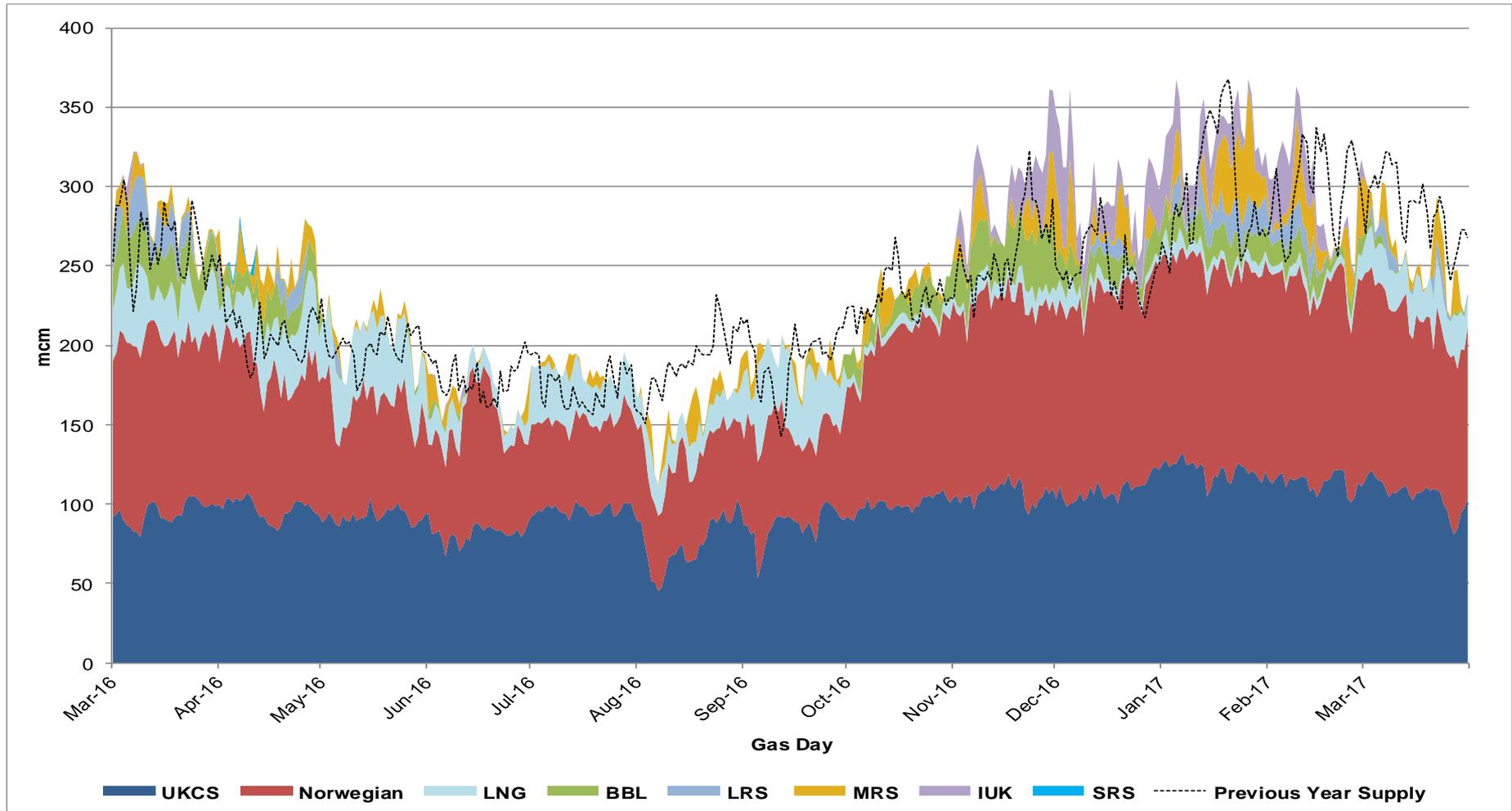
Operational Overview



Operational Forum – April 2017
Karen Thompson

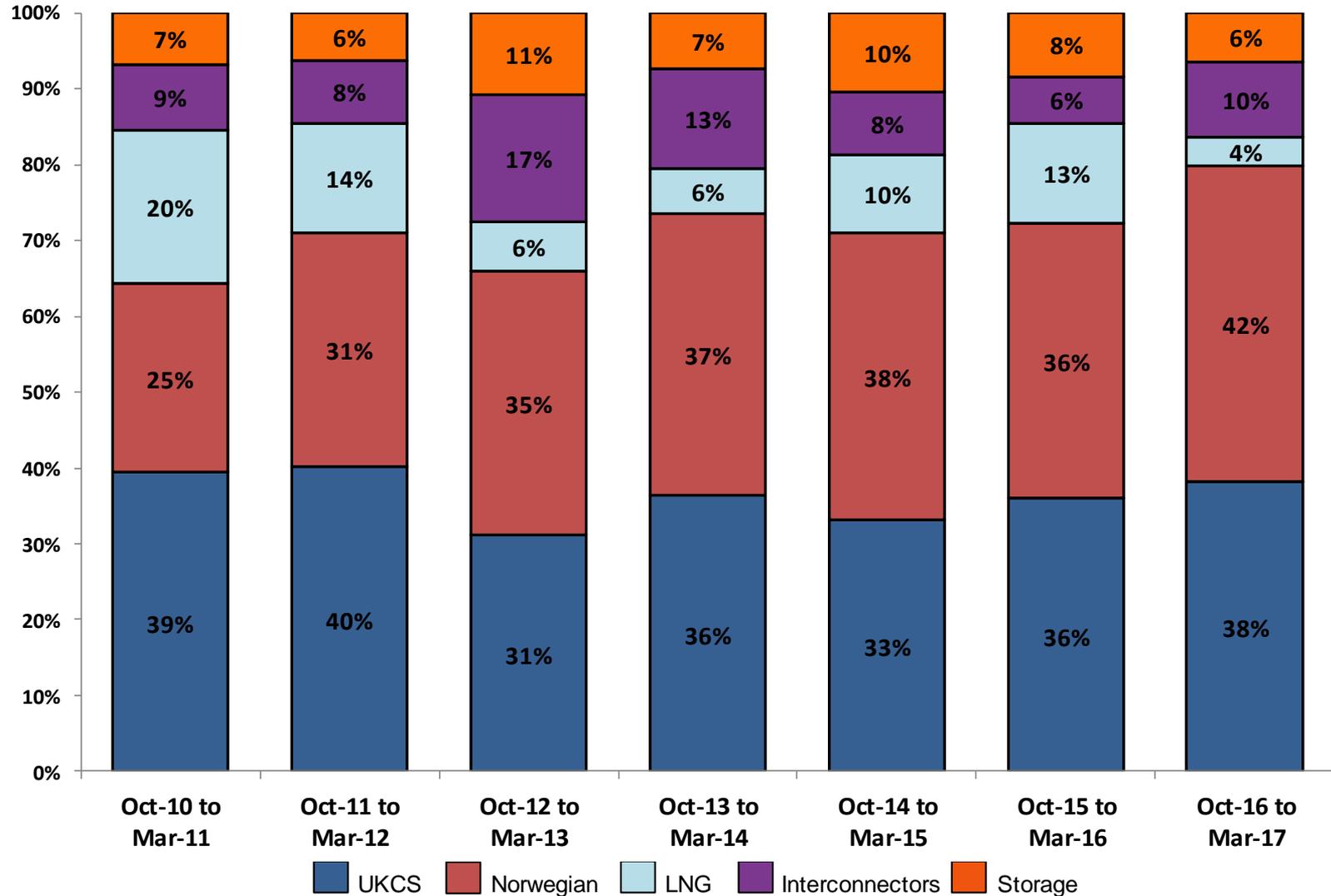
Gas Supply Breakdown

1st March 2016 to 31st March 2017 vs Same Period in Previous Years



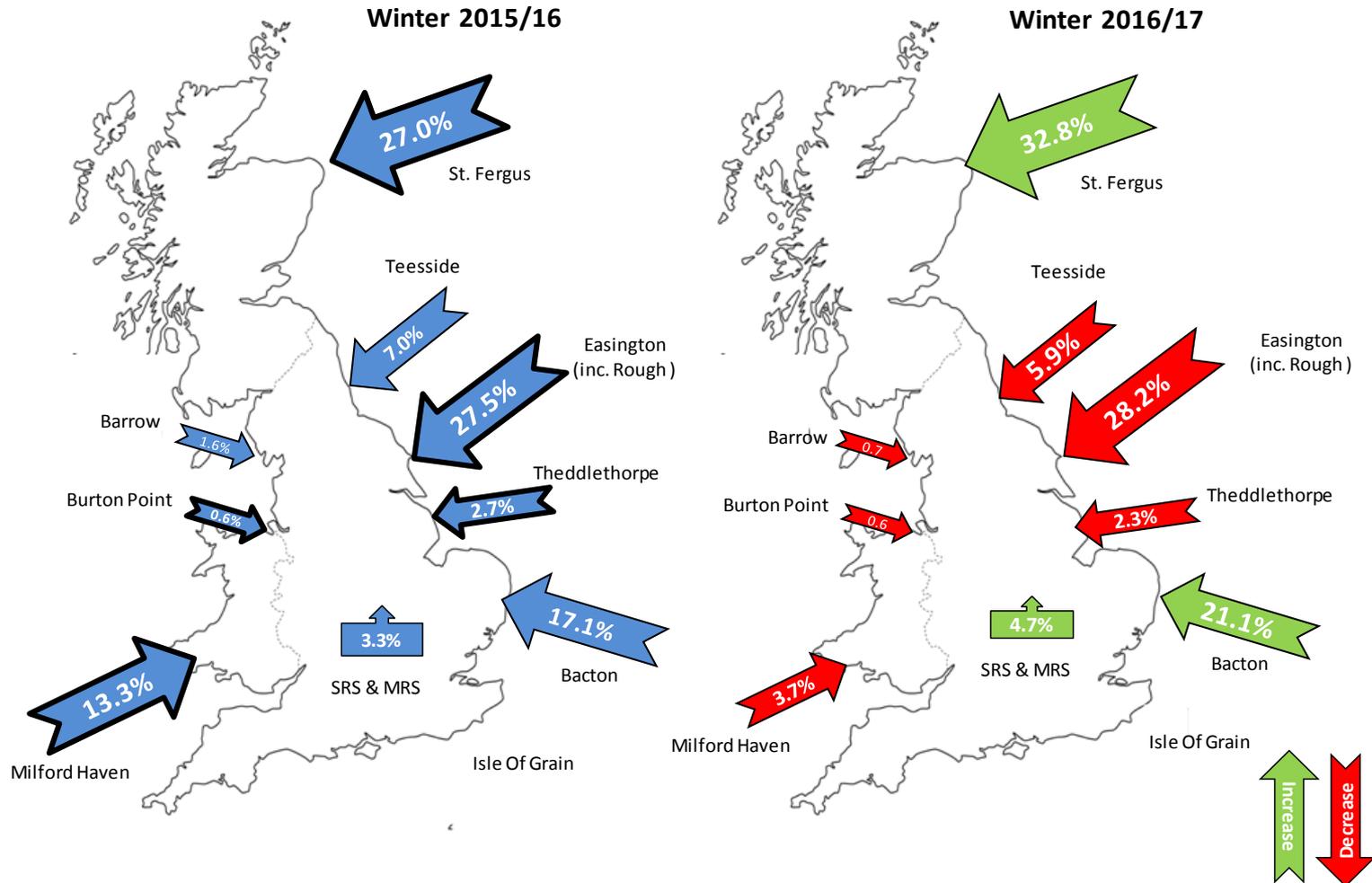
Gas Supply Breakdown

October 2016 to March 2017 vs same period over the previous 6 years



Gas Supply Map

1st October 2016 to 31st March 2017 vs Same Period Last Year

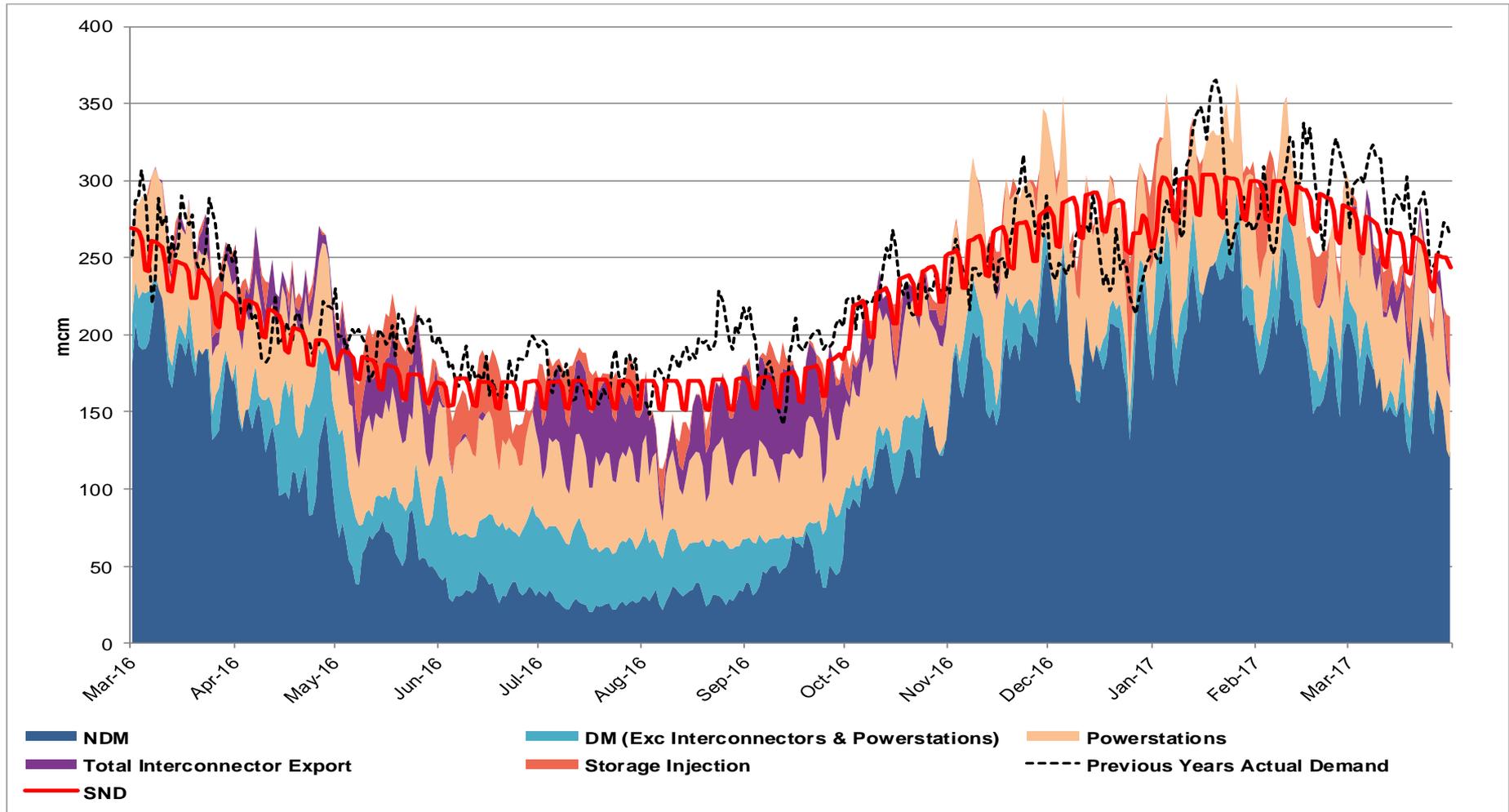


NTS Supply Winter (mcm): 1st October 2016 to 31st March 2017

Entry	Min	Max	Avg	Winter Actual Range Oct 2015 - Mar 2016	Comments												
 UKCS	80.7	132.1	109.3	79- 118	<ul style="list-style-type: none"> High St Fergus flows continued in Feb 17 [average flows ~100 mcm/d] before reducing slightly in Mar 17 [~84 mcm/d]; despite this decrease, St Fergus supplies continue to flow higher than last year (Feb 16: 66mcm/d and Mar 16: 74mcm/d respectively), this is believed to relate to the UKCS field at Rhum. LNG average flow were significantly reduced from last year with Global LNG Demand from Asia being much higher than anticipated. From late February, LNG supplies have begun to pick up again with Average flows increasing from ~7mcm/d in Feb 17 to ~25mcm/d in Mar 17. IUK switched from Import to Export from Mid February 												
 NORWAY est*	66.8	134.3	118.8	55 - 118													
 Interconnector BBL	0.0	44.8	14.9	0 - 33													
 Interconnector IUK	0.0	51.3	13.8	0 - 14													
 LNG	5.0	33.1	10.6	6 - 59													
 Storage Withdrawal	0.0	88.2	18.1	0 - 98													
						<table border="1"> <thead> <tr> <th>Entry</th> <th>Min</th> <th>Max</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Actual Supply</td> <td>189</td> <td>368</td> <td>285</td> </tr> <tr> <td>Actual Supply Exc. Storage</td> <td>184</td> <td>331</td> <td>267</td> </tr> </tbody> </table>	Entry	Min	Max	Avg	Actual Supply	189	368	285	Actual Supply Exc. Storage	184	331
Entry	Min	Max	Avg														
Actual Supply	189	368	285														
Actual Supply Exc. Storage	184	331	267														

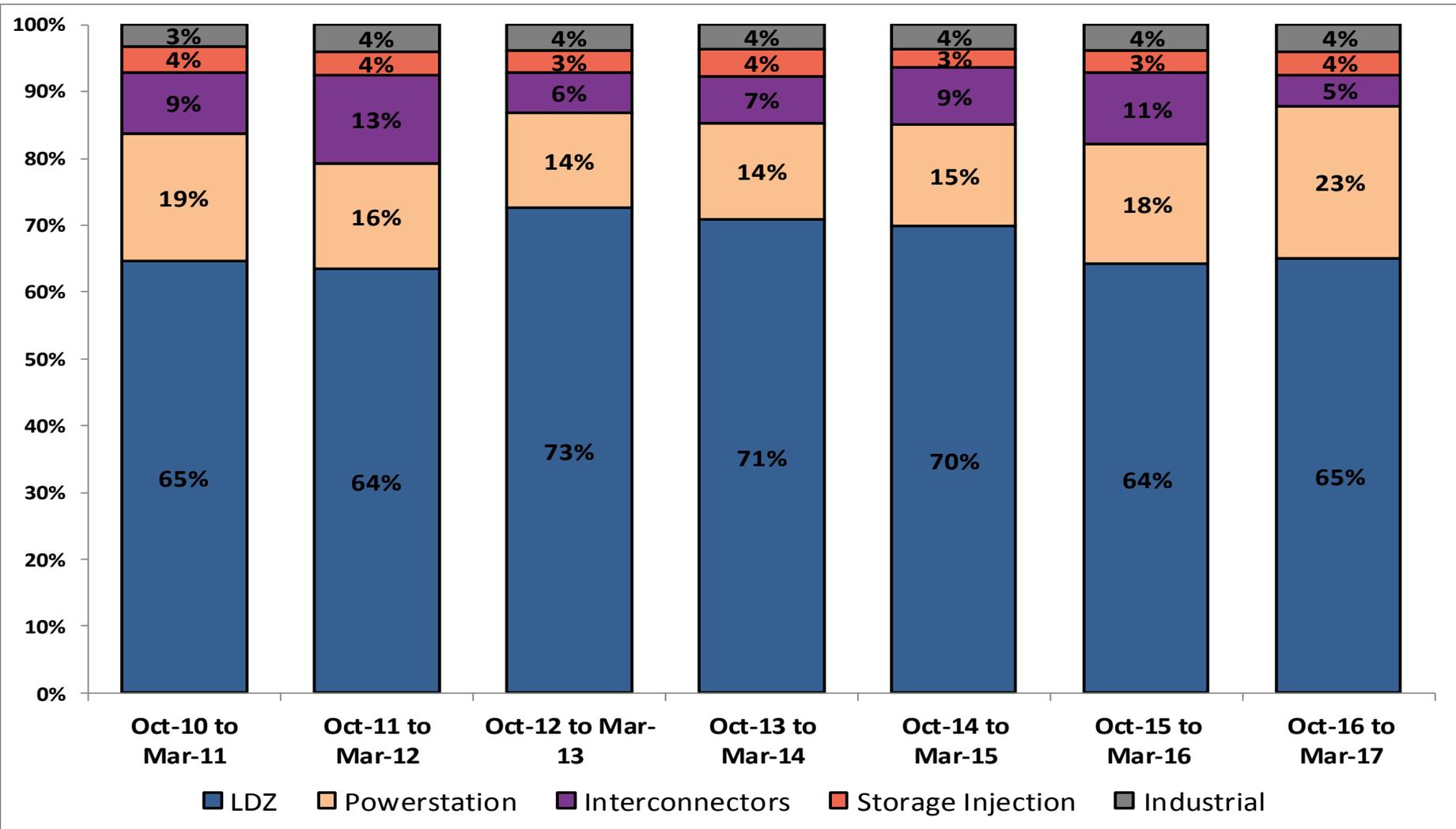
Gas Demand Breakdown

1st March 2016 to 31st March 2017 vs Previous Year



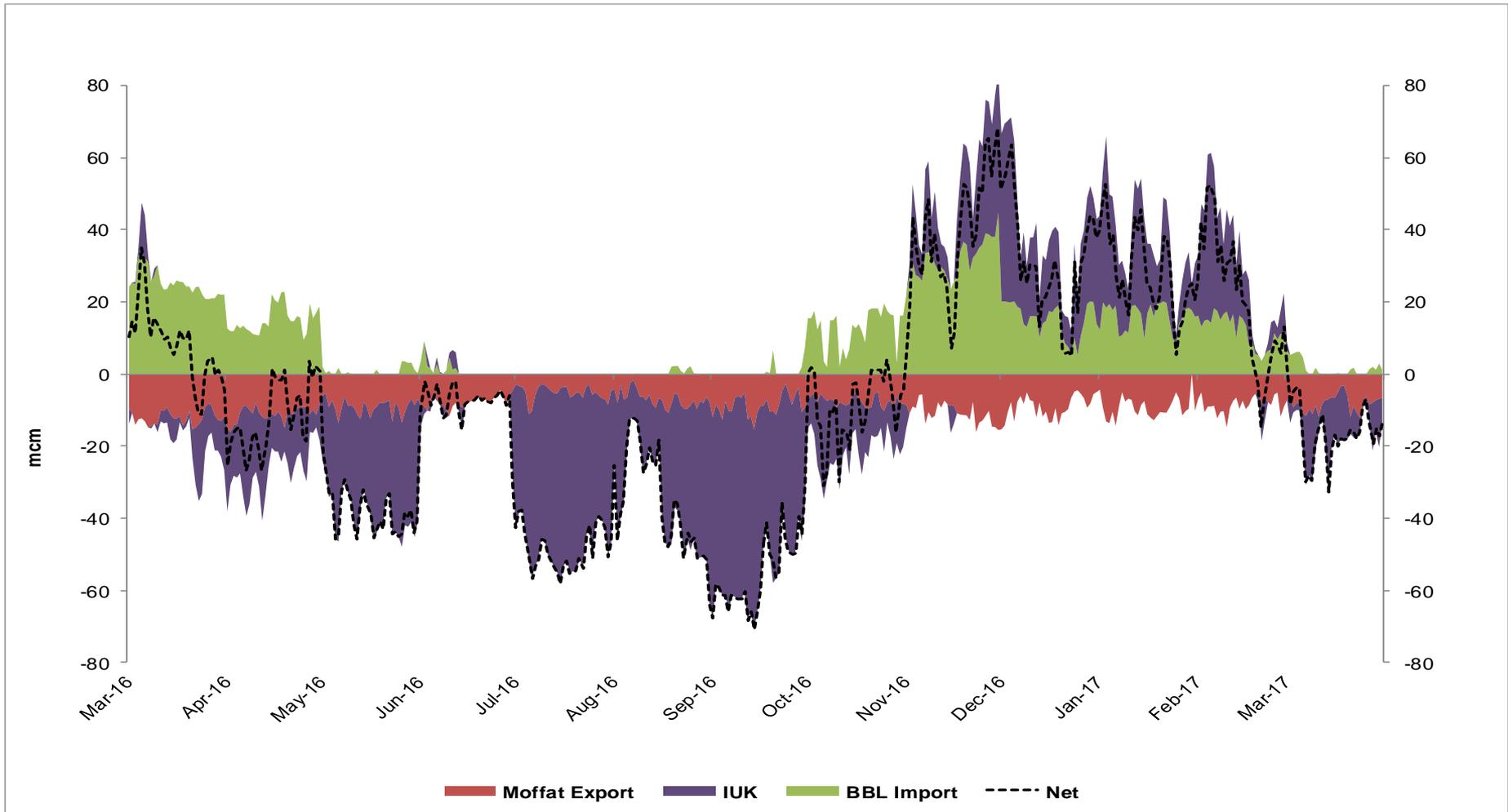
Gas Demand Breakdown

October 2016 to March 2017 vs same period over the previous 6 years



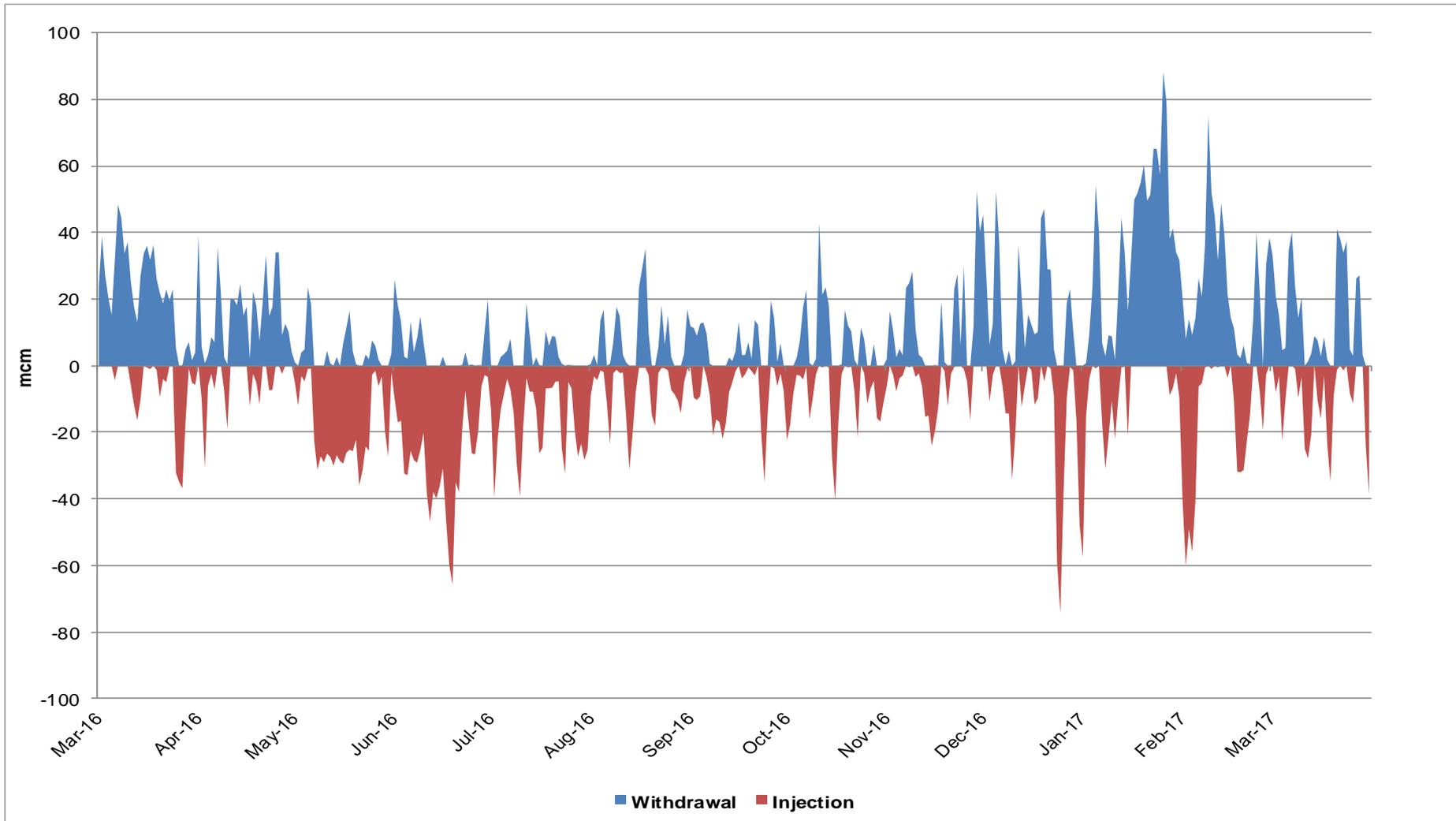
Gas Supply / Demand Interconnectors

1st March 2016 to 31st March 2017



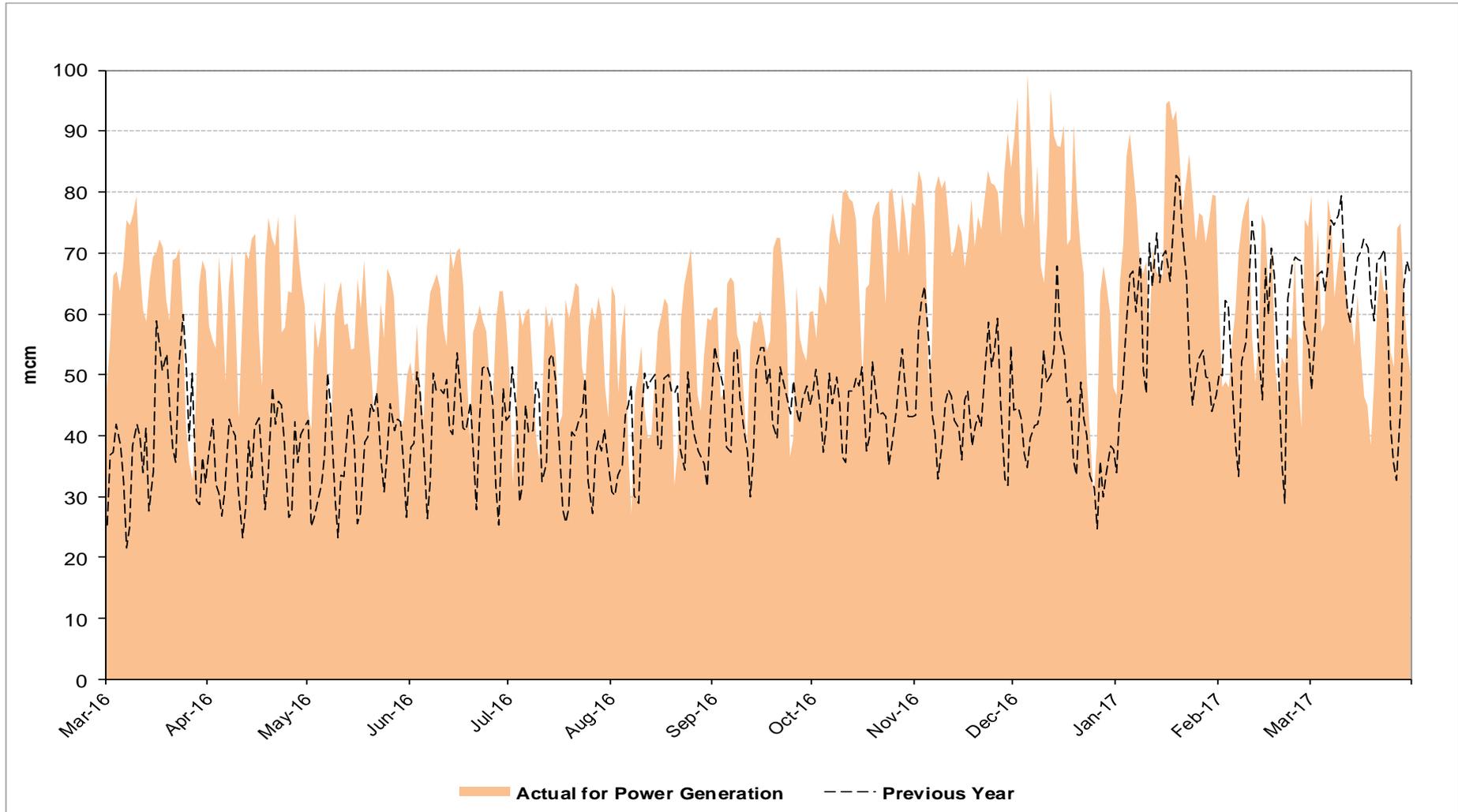
Gas Supply / Demand Storage

1st March 2016 to 31st March 2017

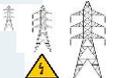


Gas Consumption for Power Generation

1st March 2016 to 31st March 2017 vs Same Period Last Year



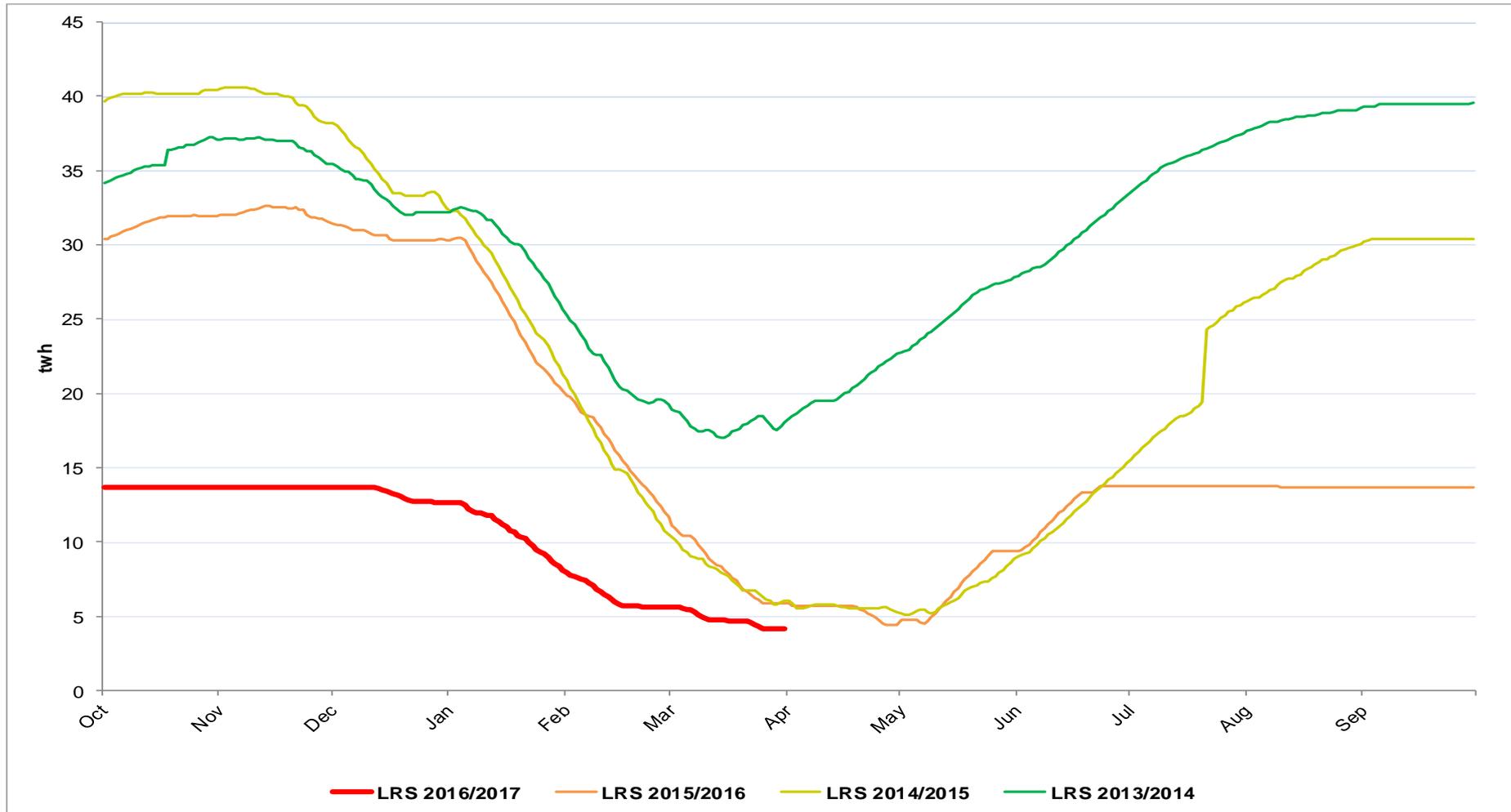
NTS Demand Winter (mcm): 1st October 2016 to 31st January 2017

Exit	Min	Max	Avg	Winter Outlook Range Oct 2016 - Mar 2017	Winter Actual Range Oct 2015 - Mar 2016	Comments
 LDZ	90.3	280.1	185.2	107 - 336	82 - 256	<ul style="list-style-type: none"> High Power station demands relating to increased EU electricity exports reduced back to normal levels in February and March. IUK switched from Import to Export from Mid February
 Interconnector Ireland	0.0	16.1	8.9	6 - 10	7 - 21	
 Industrial	8.1	15.8	11.2	19 - 36 (DM + Ind)	8 - 12 (DM + Ind)	
 PowerStation	24.1	94.0	64.9	19 - 90	20 - 78	
 Storage Injection	0.0	74.2	10.1	0 - 45	0 - 47	
 Interconnector IUK	0.0	28.1	4.2	0 - 30	0 - 42	

Exit	Min	Max	Avg	Winter Outlook Range 2016-17
Demand exc. IUK & SI	158.6	370.4	270.1	189 - 452
SND exc. IUK & SI	144.0	301.6	254.6	

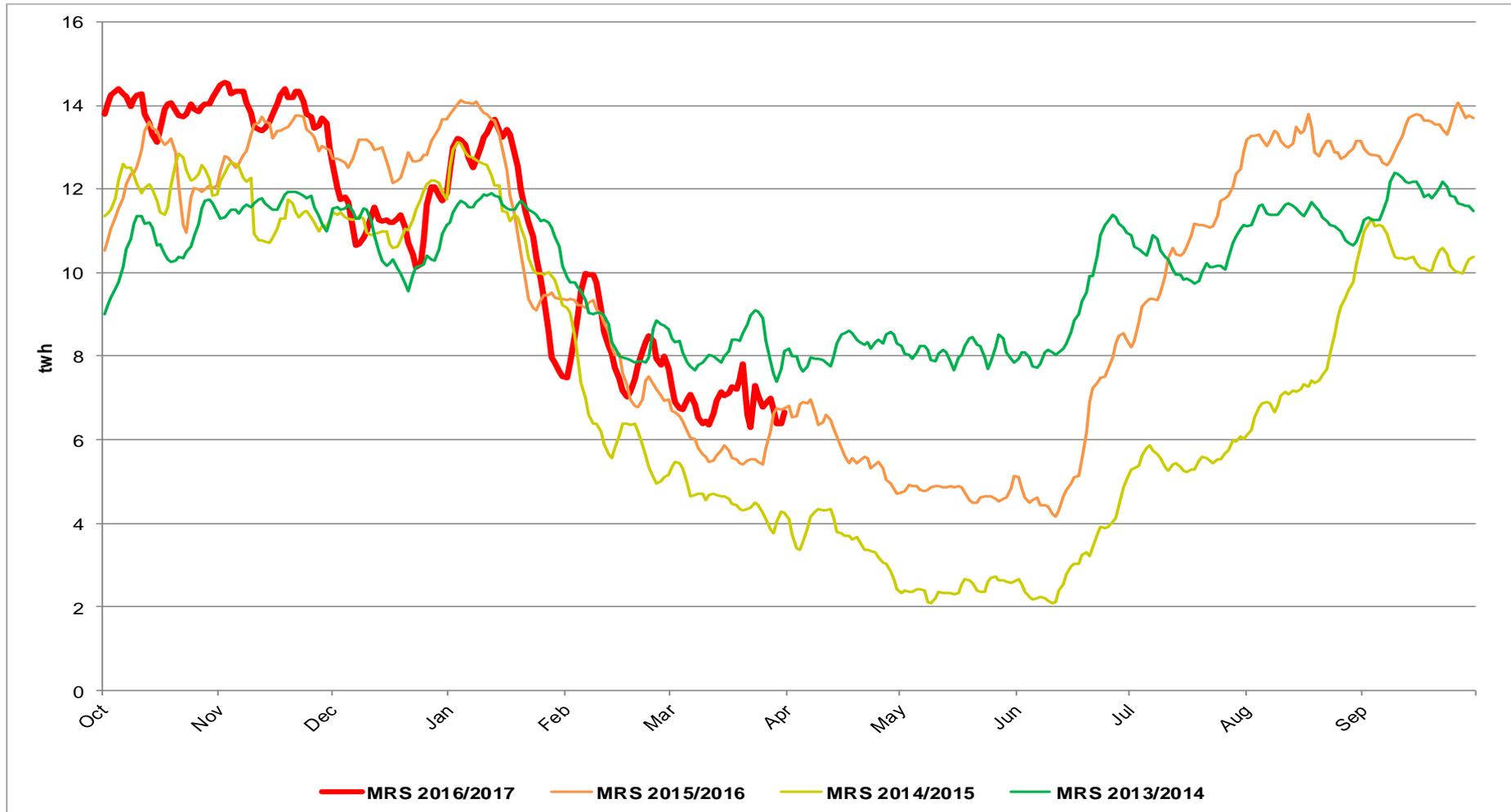
Storage Stocks: LRS

Position as at 31st March 2017



Storage Stocks: MRS

Position as at 31st March 2017



EU Gas Regulatory Change Programme

EU Change 2017 –
CAM, Incremental
& Transparency



Sarah Carrington
Bill Goode



EU Regulatory Change – why do we have to comply?

- GB has to be compliant with EU Regulations otherwise there is a risk of financial penalties
- We **still have 2-3 years** of the EU Regulatory Programme to run
- Until otherwise directed we will continue with EU Gas Regulatory Changes – this is in line with National Grid's current Brexit position



EU Phase 4a – CAM, Transparency and Incremental Changes

Scope

The EU Phase 4a project will deliver the following changes:

- **EU CAM Code - Incremental Capacity Process (IP PARCA)**
- **EU CAM Code Amendments**
- **Transparency data publication**
- **Negative Implied Flow Rates – Bacton only (Not EU Code driven)**

***Note:* The EU Gas Regulatory Change Programme is separate to the UK Link programme**



EU Phase 4a – CAM, Transparency and Incremental Changes

Shipper Information

- **Minimal impact to shippers**
- **Highlights**
 - **Four auctions for IP Quarterly Capacity replaces 1 auction**
 - **IP Annual Yearly Auction is moving from March to July**
 - **2 new Gemini reports will be available to view**
 - **Additional Transparency Data**
 - **Some operational systems improvements**
 - **CAM Incremental – Market Demand Assessment window is now open**
- **Negative Implied Flow Rates (Bacton only)**
- **User Trials for this phase are deemed unnecessary**



High Level Timeline

Dates on handout

National Grid position on EU Referendum											
<ul style="list-style-type: none"> National Grid is working closely with stakeholders to understand the implications of Brexit. National Grid will continue to be committed in its involvement within Europe and work with our European Partners. It is important that energy continues to be traded without barriers, seamlessly across the European Energy Area. 											
April 2017											
CAM Amendments/Transparency Operational Improvements	CAM Incremental										
System Testing (ST): 16 th January – 13 March 2017 Complete	<table border="1"> <thead> <tr> <th>Activity</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Expression of interest for Market Demand Indications document published</td> <td>6th April 2017</td> </tr> <tr> <td>Market Demand Indication Window Open</td> <td>Duration 8 weeks</td> </tr> <tr> <td>Market Demand Indication Window Closes</td> <td>1st June 2017</td> </tr> <tr> <td>Market Demand Assessment Report published to industry</td> <td>no later than 27th July 2017</td> </tr> </tbody> </table>	Activity	Date	Expression of interest for Market Demand Indications document published	6th April 2017	Market Demand Indication Window Open	Duration 8 weeks	Market Demand Indication Window Closes	1st June 2017	Market Demand Assessment Report published to industry	no later than 27th July 2017
Activity	Date										
Expression of interest for Market Demand Indications document published	6th April 2017										
Market Demand Indication Window Open	Duration 8 weeks										
Market Demand Indication Window Closes	1st June 2017										
Market Demand Assessment Report published to industry	no later than 27th July 2017										
System Integration Testing (SIT): 13 th March – 13 th April 17 Complete											
User Acceptance Testing (UAT): 18 th April – 10 th July 2017 On track											
Go Live (Gemini Outage): 13 th August 2017 On track											

nationalgrid
EU Gas Regulatory Change 2017 Phase 4a CAM & Incremental

For queries, please contact: gemini@nationalgrid.com or call 0800 000 0000

Visit us online: www.nationalgrid.com

Phase 4a completion date: 13th August 2017

Gemini / MIPI System

System Testing (ST): 16th January – 13 March 2017
Complete

System Integration Testing (SIT): 13th March – 13th April 17
Complete

User Acceptance Testing (UAT): 18th April – 10th July 2017
On track

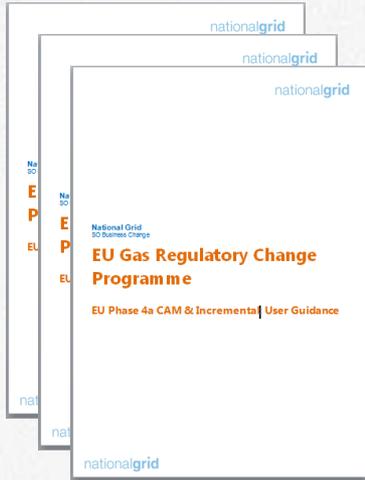
Go Live (Gemini outage scheduled): 13th August 2017
On track

CAM Incremental (IP PARCA Process)

Activity	Date
Expression of interest for Market Demand Indications document published	6th April 2017
Market Demand Indication Window Open	Duration 8 weeks
Market Demand Indication Window Closes	1st June 2017
Market Demand Assessment Report published to Industry	no later than 27th July 2017



Next Steps



We will continue to communicate with the industry through in the following channels:

- Gas Ops Forum
- Transmission Workgroup
- EU Gas Regulatory Change E-Mail Distribution List

- Gemini Screen Pack has been circulated
- Comprehensive User Guidance will be developed and circulated prior to go live



Please direct any queries to:
box.gasops.businessc@nationalgrid.com

UNC Modifications 0500/0598



Operational Forum – April 2017
Richard Jones

Mod 0598

IP Annual Yearly Auctions & Enduring Exit Capacity

Background:

- Annual Yearly IP auctions are moving from March to July each year with effect from 2018.
- This will be at the same time as when the EAFLEC window is open for the reduction of legacy Enduring Annual NTS Exit Capacity.
- CAM does not recognise Enduring Capacity.
- MOD500 UNC Transition document (3.3.5)
“The EANE(F)C Expiry Date in relation to Enduring Annual NTS Exit (Flat) Capacity which a User is registered as holding is: (a) 1 October 2020”

**No Enduring Annual NTS Exit Capacity can be held by users on or after
1st October 2020**

Mod 0598

IP Annual Yearly Auctions & Enduring Exit Capacity

Issue:

- In the Gemini Exit System, **Sold** legacy capacity for the Exit Enduring Annual NTS Capacity beyond Oct 2020 is currently:

125GWh/d at BactonINT

135GWh/d at MoffatINT

- This is misleading to users who look at their entitlement and assume they have capacity beyond 2020, forgetting that under CAM Enduring Annual NTS Exit Capacity is no longer recognised.

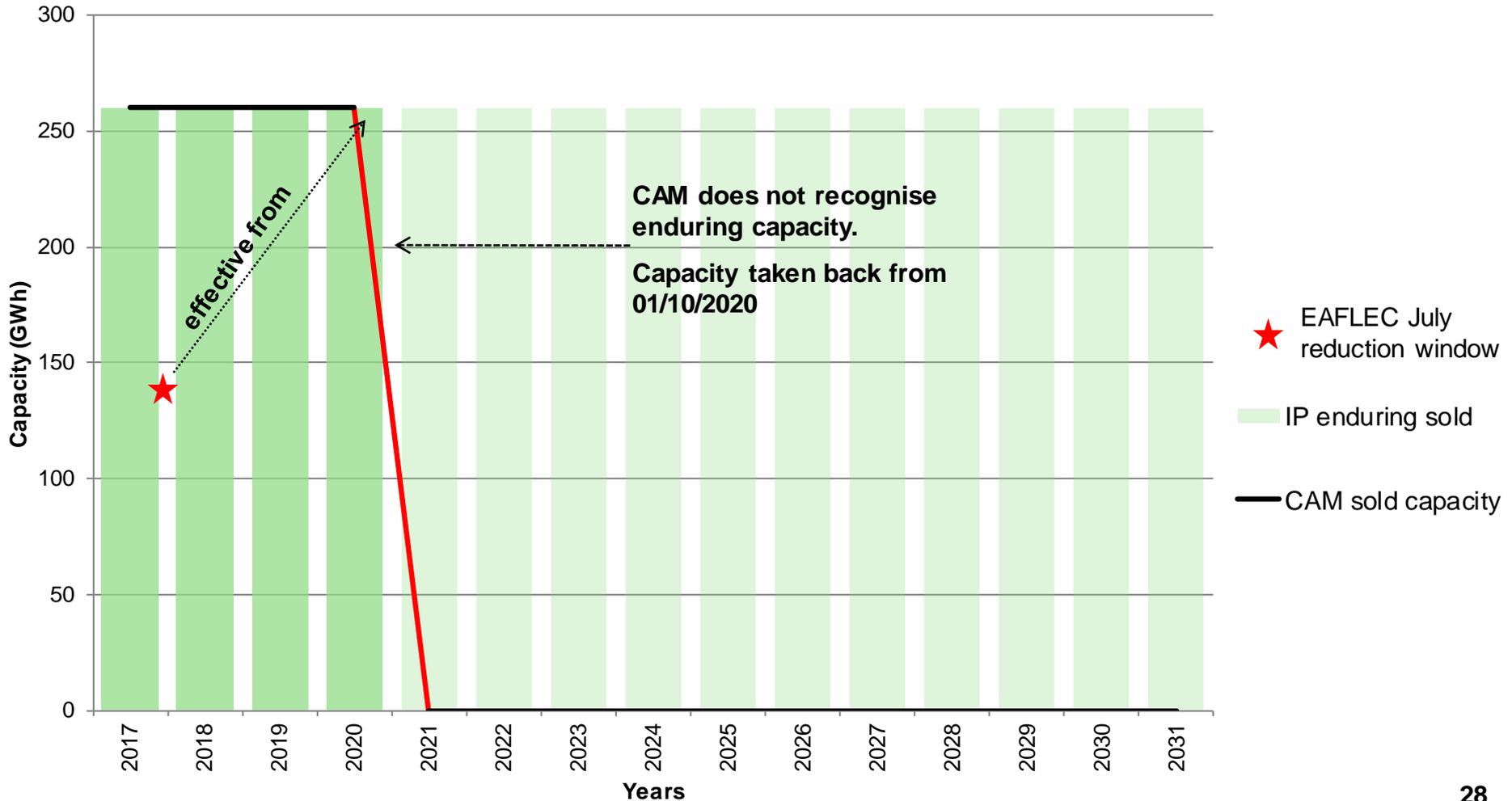
Opportunity:

- To use the next EAFLEC reduction window to reduce any legacy Enduring Annual NTS Exit Capacity for the 1st October 2020 onwards.

Mod 0598

IP Annual Yearly Auctions & Enduring Exit Capacity

IP Capacity – Transitional requirements



Mod 0598

IP Annual Yearly Auctions & Enduring Exit Capacity

Proposal:

- A proactive measure was discussed at the March Transmission workgroup. National Grid, on behalf of Users, will reduce legacy enduring capacity booked from October 2020 onwards in the next EAFLEC window (July 2017).
- This will require no action from Users. Unless you wish to opt out on the understanding that you will reduce your own capacity in the EAFLEC window.

Pros of proposal	Cons of opting out
No action or administration required by Users	Users will need to manage their own EAFLEC administration
No need for manipulation of available capacity in future annual yearly auctions. Clean data in Gemini from Aug 2017 onward	Still required to adjust capacity data for IP EU auctions in the interim period.
Correct data reported in downstream systems	Downstream reported data will be misleading
No additional system costs and low risk of error	Failure to reduce by the deadline will require a data fix to correct the system. This is more complex with greater risk and greater cost
Avoids clash of IPAY and EAFLEC auctions in July 18 onwards	

- Please email capacityauctions@nationalgrid.com to confirm if you wish to opt out of National Grid taking action on your behalf or if you wish to discuss the proposal.
- National Grid will write out to all those affected Users with details of their reduction.

UNC Modifications/Topics from Transmission Work Group



Operational Forum – April 2017
Karen Thompson

UNC Modification 0607S

- Mod 0607S proposes to increase the CO₂ limit at the NSMP NTS entry point at St Fergus from 4% to 5.5%
- 4 Workgroup meetings have been held to date, the Workgroup Report is scheduled for submission to the June Modification Panel
- Main items discussed at the last meeting:
 - NSMP historic data correlating CO₂ with Wobbe Index and other parameters
 - Updated National Grid NTS analysis on the penetration of St Fergus gas into the network
 - Potential alternative solution whereby National Grid NTS and NSMP manage CO₂ excursions by operational procedure
- National Grid NTS is continuing to investigate the potential impacts of higher CO₂ content on NTS assets
- Further information may be found at:
<http://www.gasgovernance.co.uk/0607>

UNC Modification 0605S

- Mod 0605S proposes to permit National Grid NTS to utilise to a wider range of Operating Margins gas procurement and disposal trading mechanisms in addition to tender processes
- The main issue arising in the Workgroup has been the treatment of any additional costs caused by a trading error by National Grid NTS
- National Grid NTS is currently working on additional rules for this Modification that will protect shippers commercially in the event of such errors
- The Workgroup agreed to seek an extension from the Mod Panel until July 2017 to complete business rules and legal text to accommodate this expanded scope

Negative Implied Flow Rates (NIFR) – Issue

- Historically, a GB shipper who wanted to make a re-nomination which breaches the NIFR rule could do so by sending a fax into the GNCC who had the ability to overwrite Gemini where operationally possible.
- Since October 2015, and the introduction of the EU changes, the GNCC no longer have this ability to overwrite Gemini at IPs only.
- Shipper's explained that this caused them issues due to their “scheduled” quantities not being up-to-date and so couldn't be relied on for balancing purposes.
- Following stakeholder engagement it was agreed that the most appropriate solution would be to make the required systems changes to Gemini for the GNCC to have this ability once again at IPs.

Negative Implied Flow Rates (NIFR) – Implementation

- NG issued a request for information from shippers around how they are being detrimentally affected by the GNCC not being able to process faxed re-nominations for IPs which breaches the NIFR rule.
- Following this NG agreed to fund the required systems changes to implement the solution.
- This will be delivered at the same time as the Gemini changes are made for EU Phase IV (CAM Code) in August 2017.
- Currently, looking into the possibility of creating a work-around for the issue at Moffat rather than changing the matching arrangements which would require the Irish to carry out a suite of systems changes.

Contact Us

- If you have any further questions, or would like to discuss this in more detail – please contact:
- Mod 0600S - Angharad Williams:
angharad.williams@nationalgrid.com
- Negative Implied Flow Rates – Jenifer Randall:
Jennifer.randall@nationalgrid.com
- GSMR – Robyn Jenkins
robyn.jenkins@nationalgrid.com

GB REMIT



Operational Forum – April 2017
Karen Thompson

GB Remit - Multi Editing Capability

- Site has been live since 29/12/2016 and to date there have been no outages or loss of service
- Multi Editing Capability within a company is now live
 - A system change to enable “grouping” of users within a company so that Multi User Editing of a UMM is possible
 - This will occur by default within the system
 - National Grid as Administrators to the system will be able to set a group if there are any issues
 - For further information please send a mail to box.remit@nationalgrid.com of the grouping you require

GB Remit - XML Upload Functionality

■ XML Upload Functionality

- Issue: National Grid have had several queries the functionality to enable users to be to upload a UMM via an XML Upload Functionality from their own systems
- What we are doing: National Grid is arranging a system change to enable XML Upload Functionality
- What do we want from the community: National Grid will be looking for support from users to test this new process from the community
 - Anyone wishing to support testing or for further information please send a mail to box.remit@nationalgrid.com of the grouping you require
 - Planned go live date is mid-May 2017. We will put out a news item on the site once date confirmed.

Reviewing Communication Process



Operational Forum – April 2017
Karen Thompson

Reviewing Communication Process

- National Grid Gas is seeking to improve electronic communication between the gas community
 - In response to your feedback
 - Provision of Fax is increasingly expensive and difficult to maintain
- Starting with replacing Fax for notifications and settlements
 - Building on current processes and systems
 - Needs to be a secure, accurate and efficient exchange of information
 - A range of methods including email, file transfer and API (webservice)

Reviewing Communication Process

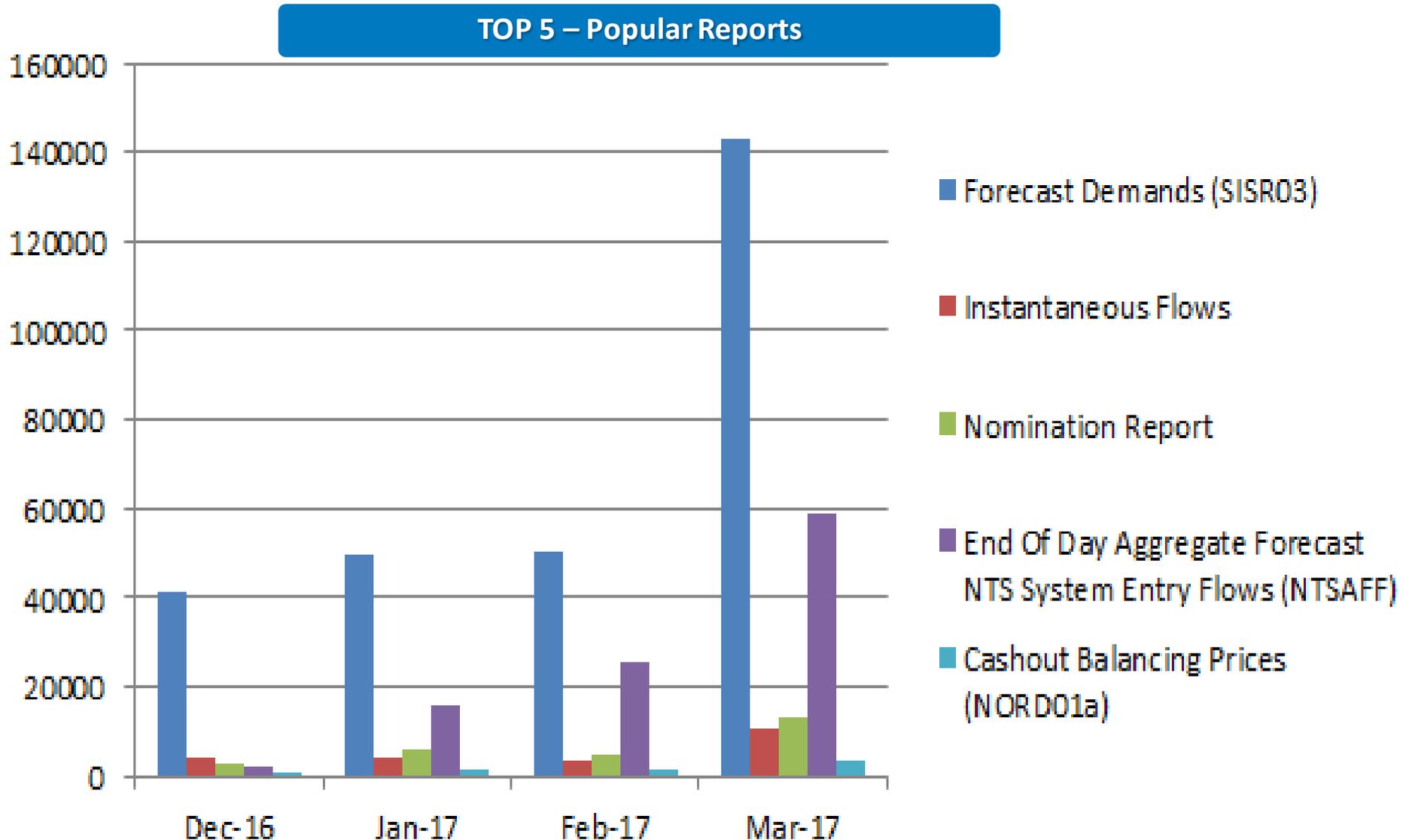
- Discussions have already taken place and this is a continuation of the process.
- Our ambition is to design a flexible system
 - Incorporate your way of working as much as possible
 - Provide simplified standard pro-formas and protocols
- As a start to moving towards this aspiration
 - National Grid has commenced the process with a survey to customers, based on our contact list.
 - To date we've had 25 responses with 92% of the industry happy to move to electronic communication.
 - If you would like to participate please let us know.

MIPI Statistics



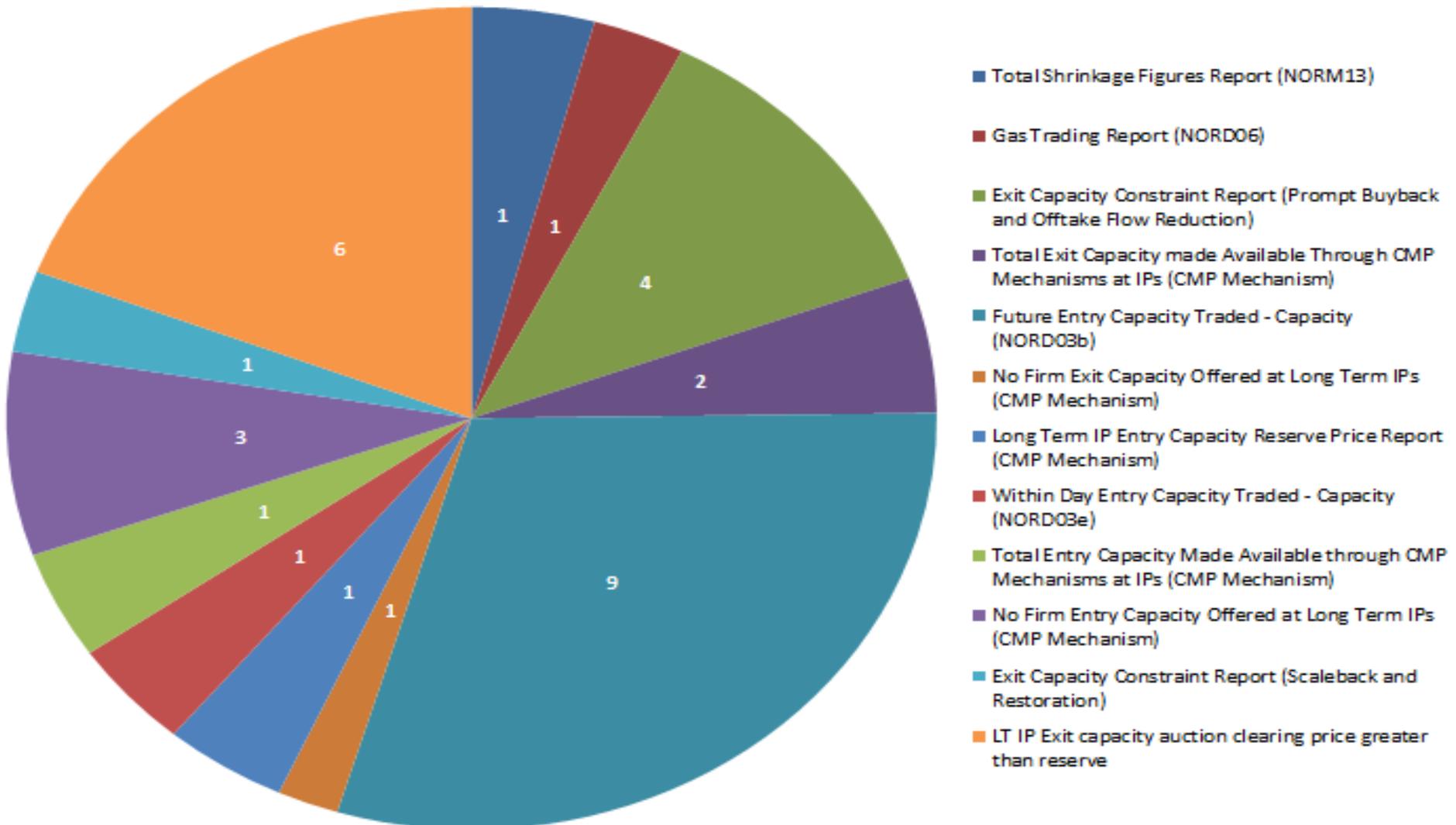
Operational Forum – April 2017
Karen Thompson

IS Service Management – MIPI Performance – March 2017



IS Service Management – MIPI Performance – March 2017

Least Popular Reports

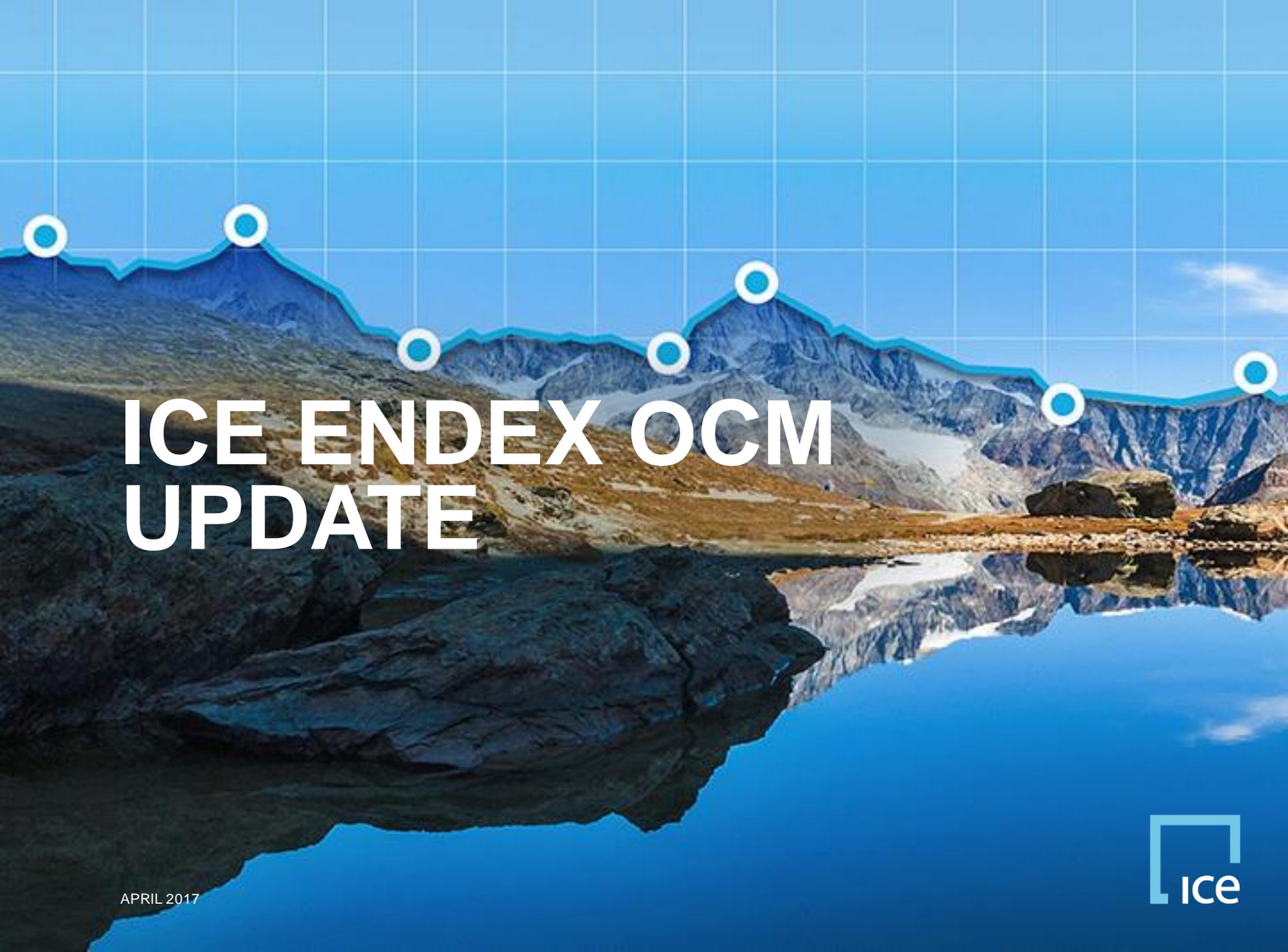


MIPI Data Update

- Following GCS there were some data inconsistencies in the data that was reflected in MIPI, most of which have been resolved the outstanding issues can be summarised as follows:
- **Demand actual data D+1 (SISR04 and Data Item Explorer)** – This data has been consistently available since 03/11/17. All existing D+1 data has been deleted since 29/07/16 until 02/11/16. This data will not be retrospectively added back into MIPI as the more accurate D+6 data is available.
- **Demand actual data D+6 (SISR04 and Data Item Explorer)** – All data is correct since 12/02/17, the historic data has not been available in MIPI from 23/07/16 until 11/02/17.
- **Weather Data (Operational Summary Report)** - From mid-May 2017 this data item will be published and hence the report will be complete from that point onwards. The retrospective patching of missing data will commence as soon as possible and we aim to have this completed by the end of May 2017.
- **Capacity Availability (NORD07)** - An issue has been identified with this report and we are working to understand the root cause of this issue.

Please contact the e-mail address below if you have any further queries:

Box.operationalliaison@nationalgrid.com



ICE ENDEX OCM UPDATE

APRIL 2017

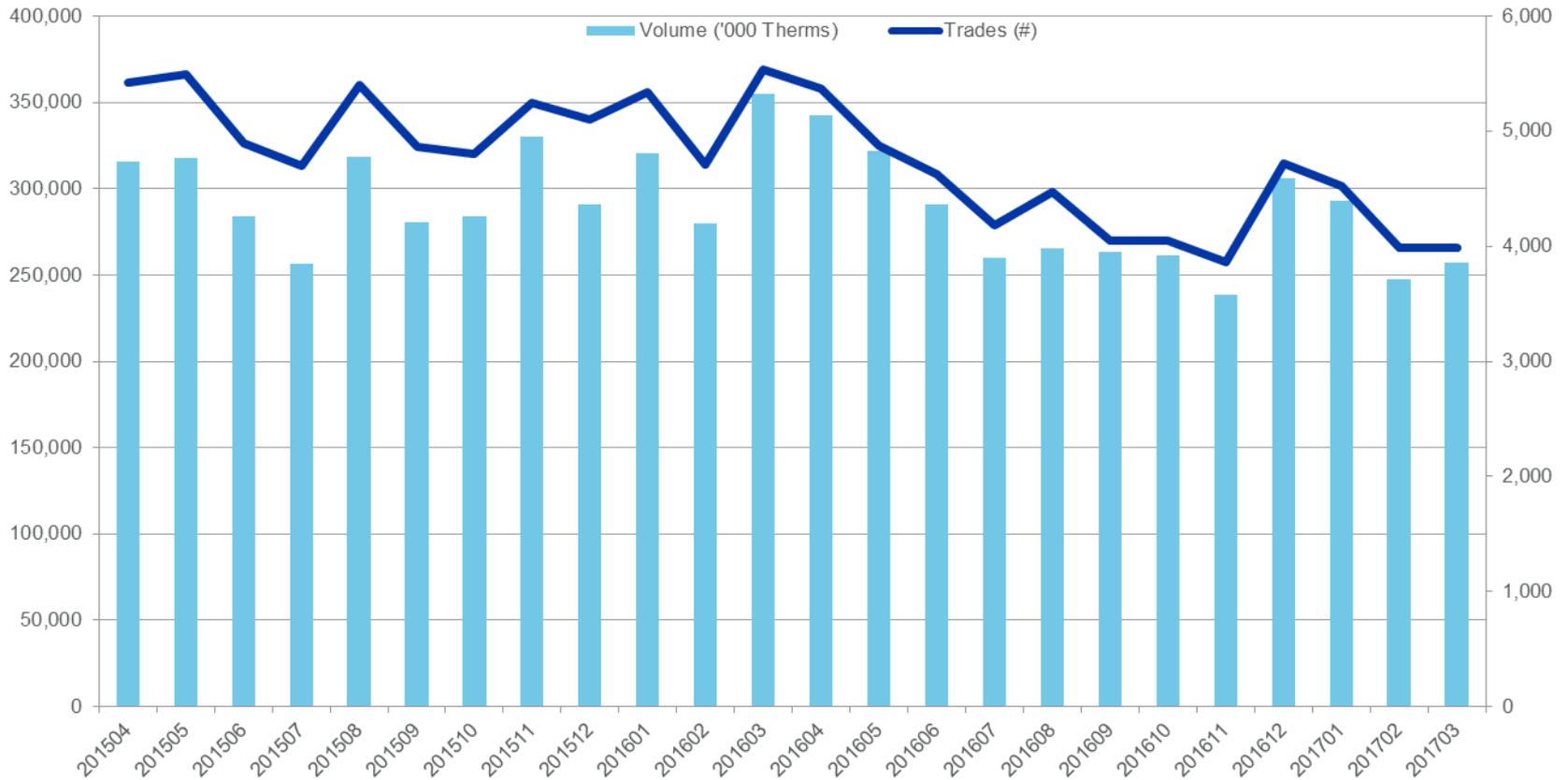


CONTENT

- OCM Market Update
- AOB

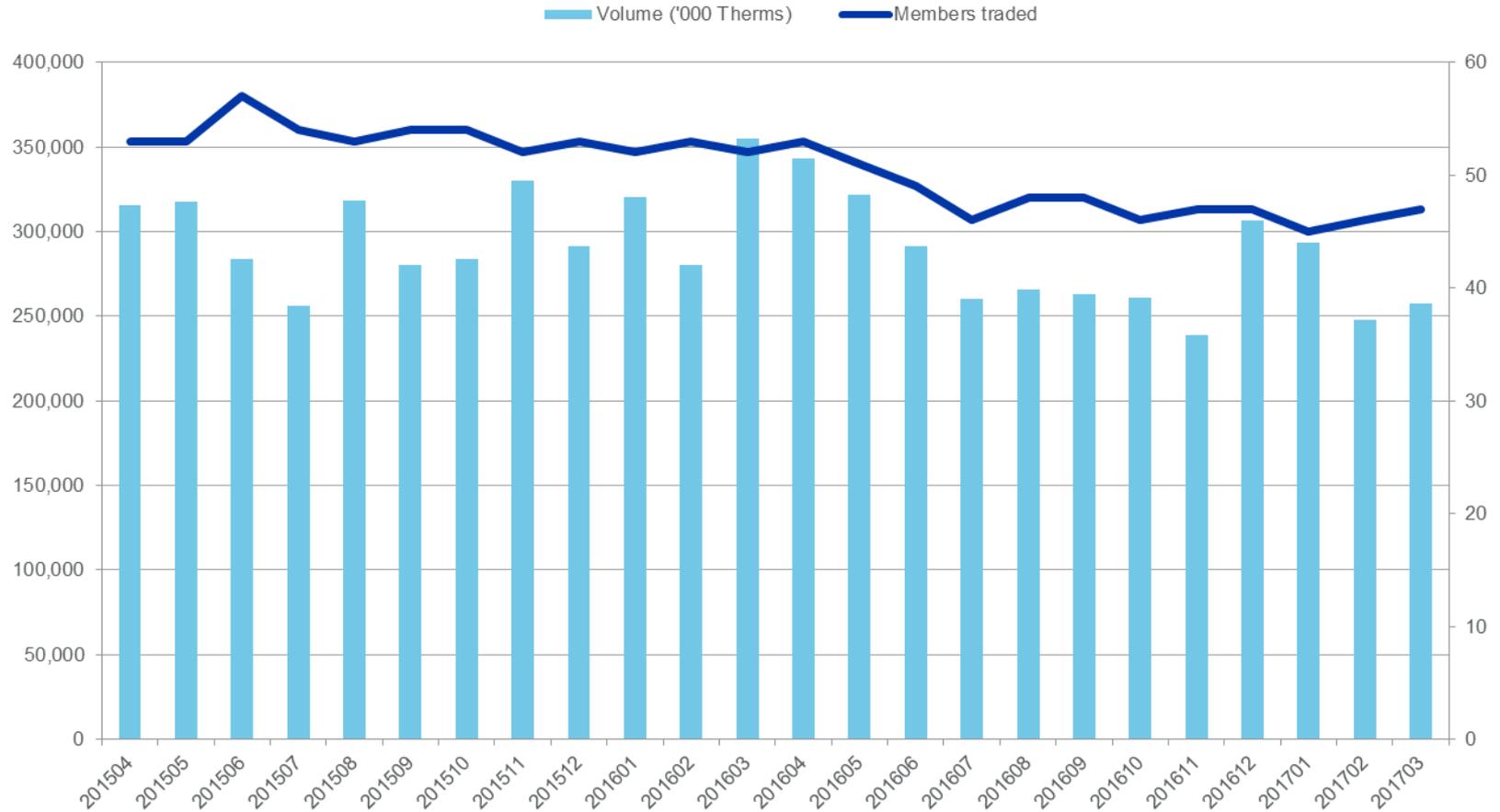
VOLUME AND TRADES PER MONTH

LAST 24 MONTHS



VOLUME AND ACTIVE MEMBERS

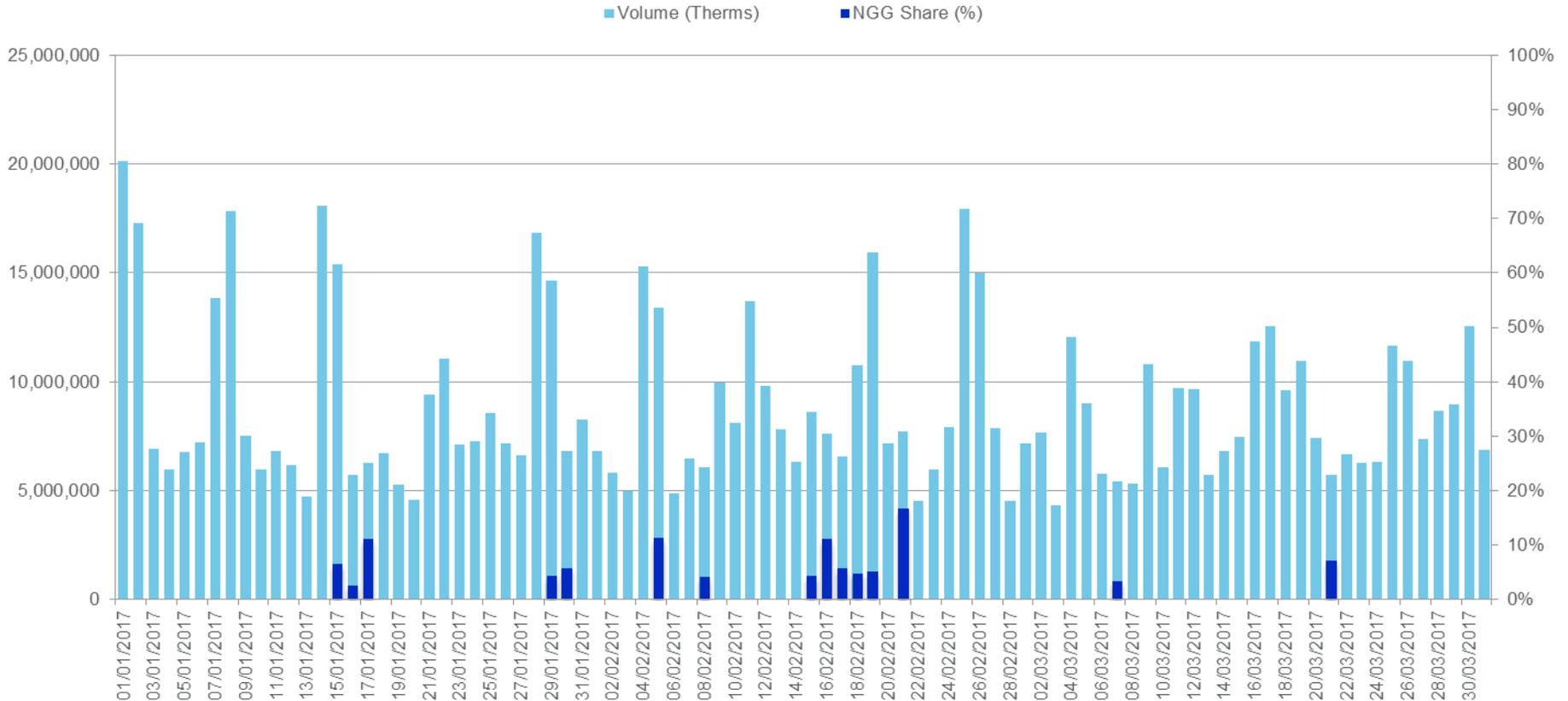
LAST 24 MONTHS



VOLUME AND NGG SHARE PER DAY

LAST 3 MONTHS

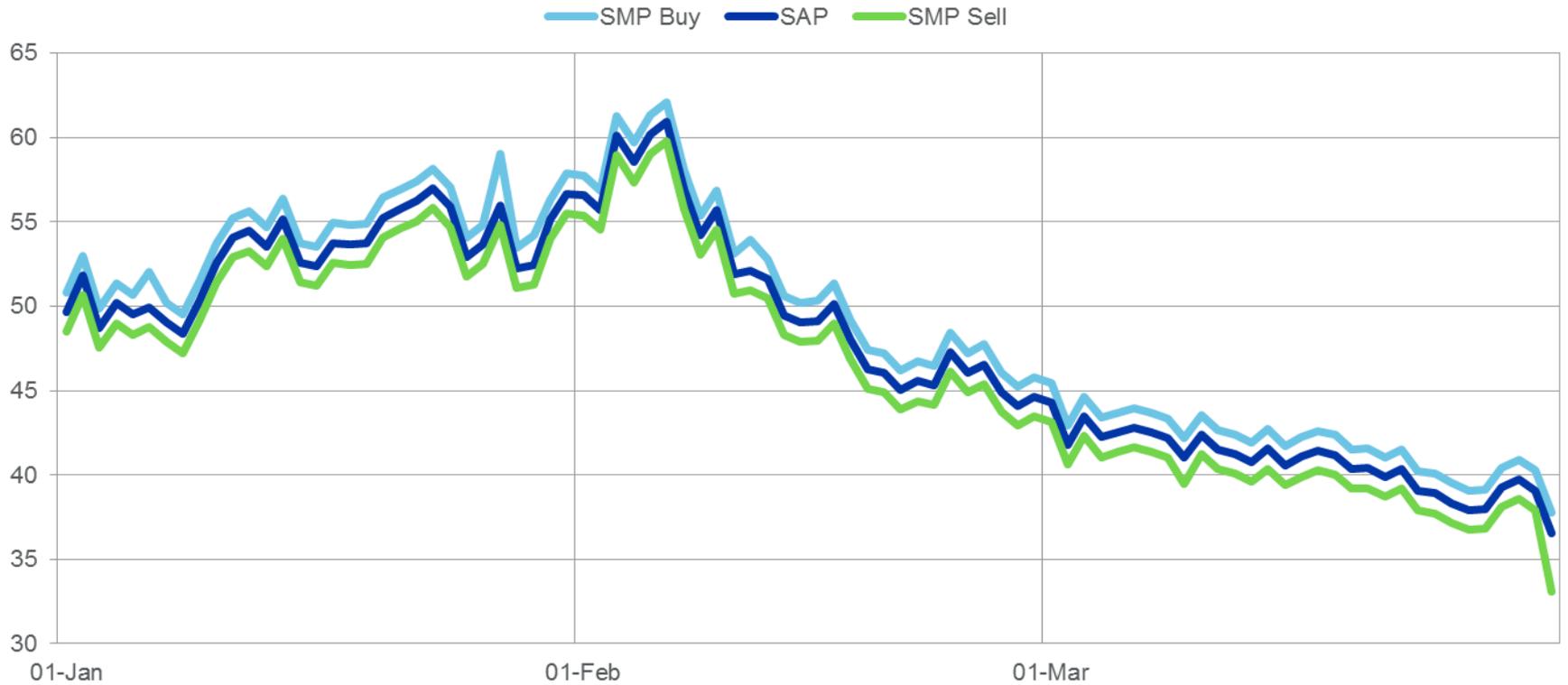
	HIGHEST	LOWEST	AVERAGE
Volume	20,129,000 (1 Jan)	4,339,000 (3 Mar)	8,869,044
NGG Share	16.7% (21 Feb)		3.1%



SAP/SMP PRICES

LAST 3 MONTHS

	SMP BUY	SAP	SMP SELL
Highest	62.08 p/th (06 Feb)	60.92 p/th (06 Feb)	59.75 p/th (06 Feb)
Lowest	37.74 p/th (31 Mar)	36.58 p/th (31 Mar)	33.10 p/th (31 Mar)



THANK YOU

DISCLAIMER

The information contained in this document ("Presentation") has been prepared by ICE Endex and is subject to change without notice. Copyright and intellectual property right protection exists in this Presentation and it may not be reproduced, distributed or published with any third party, in whole or in part, without the express prior written permission from ICE Endex. All rights are reserved. While reasonable care has been taken to ensure that the information contained herein is true and accurate, ICE Endex makes no representation to its correctness, reliability or completeness including likelihood of achievement or reasonableness of any forecasts, prospects, returns or statements in relation to future matters that may be contained in this Presentation. Neither ICE Endex nor any of its directors or employees accepts any liability in respect of the information contained in the Presentation or for any loss arising from the use of this Presentation, its contents or otherwise arising in connection with it. This Presentation does not constitute an offer, invitation or recommendation to any transaction and neither is it to be taken as any form of commitment on the part of ICE Endex to proceed with any transaction.

Break



Remember to use
SLIDO - Your feedback
is really important to
us!

slido

NTS Pressures



Operational Forum – April 2017
Sally Thatcher

NTS Pressures

Customers are telling us that pressure levels on the transmission network are affecting their operations. This is a complex issue, affected by actions across the industry. We're here to work with the industry to develop appropriate solutions.

Low pressures presenting challenges for customers at exit points

High pressure presenting challenges for customers at entry points

The issues we're hearing from customers are around:

Unforeseen pressure changes affecting assets

High pressures affecting particular assets

We are exploring actions that can help address these issues

We have begun working with industry to understand the issues and begin discussions on possible action.

At today's Ops Forum, we want to:

- Discuss what affects system pressures
- Discuss what we've heard so far from customers and get any further view
- Begin exploring potential short and medium term actions

Following today we'll continue discussions with industry to further consider and potentially initiate short/medium term actions.

We will also be supporting discussions on any longer term actions that may be required, such as framework changes. The Gas Future Operability Planning (GFOP) consultation will explore longer term operability challenges. Cross-industry discussions, such as the charging review, will also consider specific elements that impact pressure.

What affects system pressures?

System pressure is affected by the gas system stock and the operation of the transmission network. Different industry parties therefore affect system pressure:

Shippers

Balancing & timing: In addition to the overall end of day balance, differences between demand removing gas and supply entering the network affect system stock at particular times of day.

Location: where gas is brought on to or off the network affects pressures in specific locations.

Entry and Exit Points

Timing: Decisions by connected parties on how and when they supply or offtake the volume of gas will affect stock and pressures in particular areas.

Pressure requirements: different customers have different pressure requirements, in part due to asset investment and optimisation decisions.

National Grid

Operational decisions: Decisions will primarily be determined by the notifications received and asset availability and the need to meet overall network requirements.

Asset investment: in the longer term, decisions on where to invest in assets will affect ability to provide pressures in particular locations.

The volume and timing of changes to these will affect ability to respond accordingly

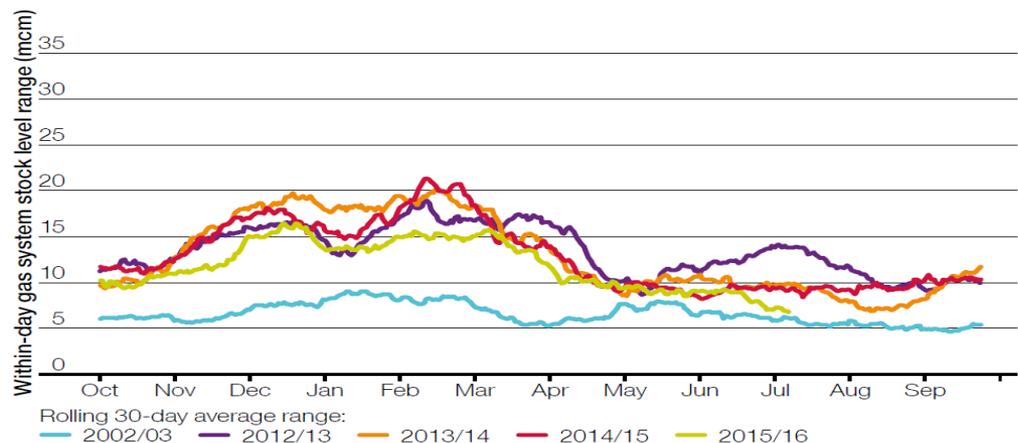
What has changed recently?

Reduced predictability of supply patterns: Supply patterns are much less predictable, increasing operational challenges (e.g. scheduling of maintenance).

Increasing within day linepack swing: notable trend towards later reconciliations of daily balancing which depletes gas system stocks. Stocks changes can be up to three times the level seen a decade ago. This volatility has a significant affect on pressures. The graph below compares the within-day gas system stock level changes seen in 2002/03 to those seen in 2015/16.

Increasing customer need for flexibility: Direct connect customers want to be able to take gas off, and bring gas on, more quickly at shorter notice e.g. to respond to changes in the electricity market

Figure 2.3
Rolling 30-day average range of NTS gas system stock levels



Operational insight

Large entry and exit points can significantly impact pressures in the local area, particularly where large changes are made quickly

Fluctuations are magnified for smaller pipelines and lower pressures, such as at the extremities of the network

Our general strategy will be to keep linepack evenly distributed, with particular regard to maintaining minimum/maximum pressures at the extremities.

1600 notifications received every day

Unexpected changes in one part of the network can lead to consequences for sites on the other side of the country

Locations close to compressors will see bigger pressure changes when those compressors change

180 daily NTS reconfigurations

What have we heard from customers so far?

Customer have indicated they want:

More consistent pressures/ particular pressures at particular times.

Earlier notification of what the pressure will be at particular times

Clear longer term indicator of pressure to inform investment decisions

What are the challenges to providing this:

- Different customers often have conflicting needs- National Grid is obliged to be non-discriminatory
 - Networks are not designed for this purpose
 - Would require framework changes
 - Likely to incur significant cost for the industry
-
- Expected pressures will change continually throughout the day because of changes in behaviour
-
- Long term investment signals come from the industry
 - Any assessment of future pressures can only be based on the information known at the time

We would like to explore the value and challenges of possible ideas to help address these issues

What information based options might be possible?

- 1: Notify industry when potential significant overall linepack swing is identified from aggregated market data.
- 2: publish instantaneous data on pressure, linepack and/or flow.

What individual service based options might be possible?

- 3: Send pressure forecasts to specific customers
- 4: Provide bespoke services to provide particular pressures, when possible, to individual customers.

What other actions could be taken?

Long term changes:

E.g. framework changes to address the root causes of pressure issues

We do not propose to discuss these today. Views should be fed in to the GFOP and other relevant consultations.

Pressure Discussions.....

Break into groups and discuss the options outlined and any other ideas from the forum

[see posters]

AOB



Operational Forum – February 2017
Karen Thompson

Future Operational Forum Dates 2017

Finding a better way

Month	Date
April	20 th April 2017
June	22 nd June 2017
September	21 st September 2017
October	19 th October 2017
November	23 rd November 2017
December	14 th December 2017

See you at the next Gas Ops Forum – Thursday 22nd June 2017.....

Appendix



Capacity Neutrality: 1st April 2016 to 31st March 2017

Revenue / Costs	Apr 16 to Mar 17	Apr 15 Mar 16	Comments
WDDSEC/DAI Entry Capacity Revenue	-£1,238,925	-£353,487	* Entry Capacity Overrun Revenue data not yet available for March 2017
Total Entry Constraint Management Operational Costs	£526,236	£0	
Entry Capacity Overrun Revenue	-£1,379,261*	-£635,569	
Non-Obligated Sales Revenue (Entry only)	-£261,317	-£492,497	
Revenue from Locational Sells and PRI Charges	£-14,249	£0	
Net Revenue	-£2,367,516	-£1,481,553	

ICE ENDEX Market Prices (p/th)

Min / Max

	SAP	SMPB	SMPS
Apr 16 to Mar 17	21 - 60.9	22.2 - 62.1	19.9 - 59.8
Apr 15 to Mar 16	26.6 - 52.4	27.7 - 55	25 - 51.1

Net Balancing Costs

	Imbalance	Scheduling	OCM	Net
Apr 16 to Oct 16	£1,941,550 (CR)	£2,160,798 (CR)	£5,347,412 (CR)	£9,449,760 (CR)

Energy Balancing: 1st April 2016 to 31st March 2017

NGG Balancing Actions	Apr 16 to Mar 17	Apr 15 to Mar 16	Comments
Buy Actions	49 (36%)	120 (67%)	<ul style="list-style-type: none"> • Sell actions have significantly increased / Buy actions reduced for the period compared to same period last year. • There have been 42 Sell actions in Winter 2016 [Oct: 3, Nov: 9, Dec: 10, Jan: 0, Feb: 6, Mar: 14]. • There have been 26 Buy Actions in Winter 2016 [Oct: 2, Nov: 1, Dec: 4, Jan: 15, Feb: 3, Mar: 1].
Sell Actions	89 (64%)	60 (33%)	
Buy Actions [Volume: Gwh]	693	1789	
Sell Actions [Volume: Gwh]	-1719	-987	
Number of Balancing Actions	138	180	
NGG set Default Marginal Prices [SMPB: Average %]	0	0	
NGG set Default Marginal Prices [SMPS: Average %]	0	0	