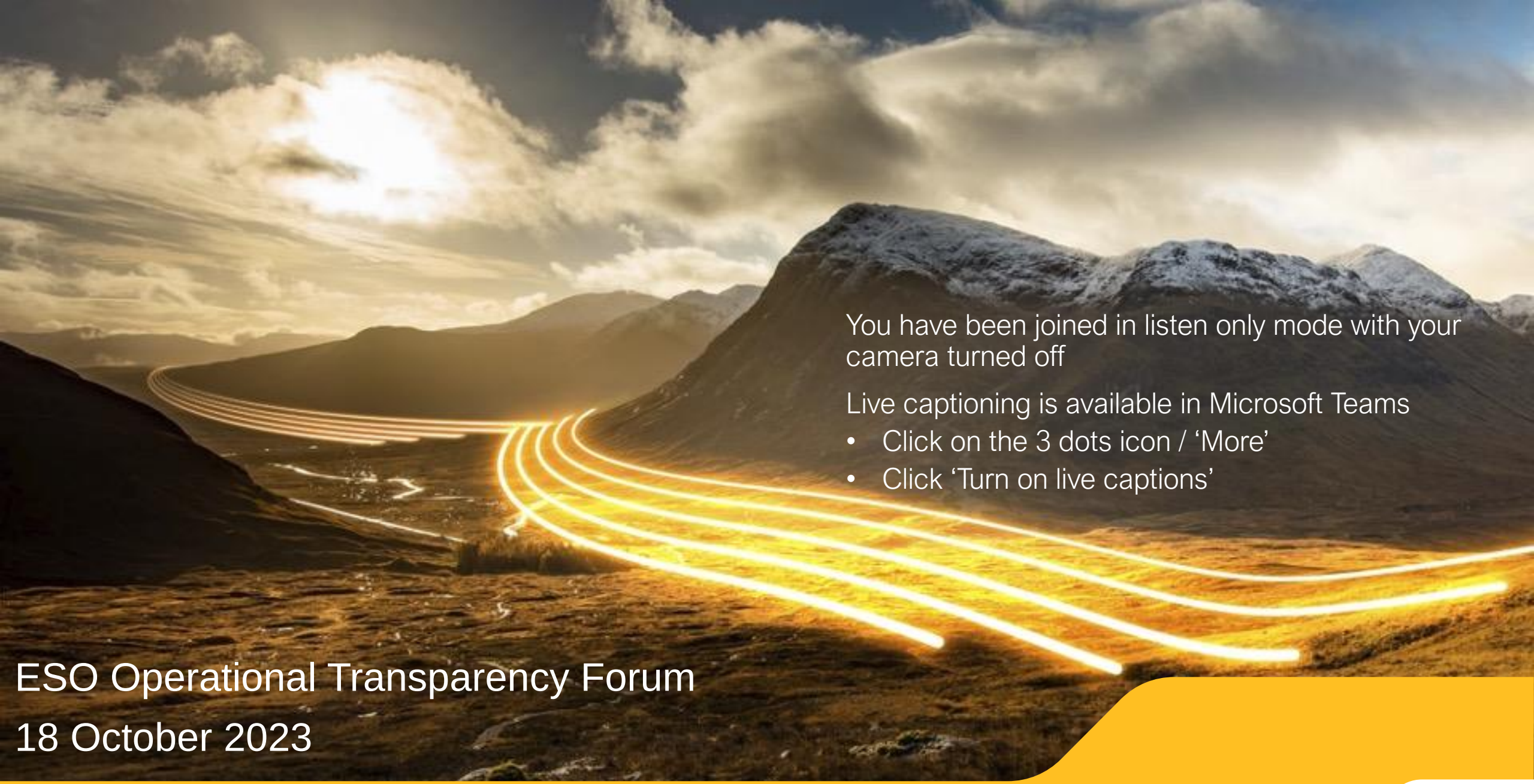

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Live captioning is available in Microsoft Teams

- Click on the 3 dots icon / ‘More’
- Click ‘Turn on live captions’

ESO Operational Transparency Forum

18 October 2023

Introduction | Sli.do code #OTF

To ask questions live and provide us with post event feedback go to Sli.do and join event code #OTF.

- **Ask your questions as early as possible** as our experts may need time to ensure a correct answer can be given live.
- **Please provide your name or organisation**. This is an operational forum for industry participants therefore questions from unidentified parties will not be answered live. If you have reasons to remain anonymous to the wider forum please use the advance question or email options given on the next slide.
- **Questions will be answered in the upvoted order whenever possible**. We will take questions from further down the list when: the answer is not ready; we need to take the question away or the topic is outside of the scope of the OTF.
- **Sli.do will remain open until 12:30**, even when the call closes earlier, to provide the maximum opportunity for you to ask questions.
- **All questions will be recorded and published.** Questions which are not answered on the day will be included, with answers, in the slide pack for the next OTF.

Stay up to date on our webpage: https://www.nationalgrideso.com/OTF

Future deep dive / focus topics

Today

Winter Deep Dive

Future

Transmission Network Development – 25th October – this will cover questions not covered in the constraints deep dive

Margins overview – 1st November

Scottish Oscillations – following conclusion of current investigative work

If you have suggestions for future deep dives or focus topics please send them to us at: .box.NC.customer@nationalgrideso.com and we will consider including them in a future forum

Enduring Auction Capability

The EAC platform will officially launch on **Thursday 19th October at 08:00**, this is when the gate for bid submissions will open ahead of the first auction taking place on **Thursday 2nd November at 14:00**.

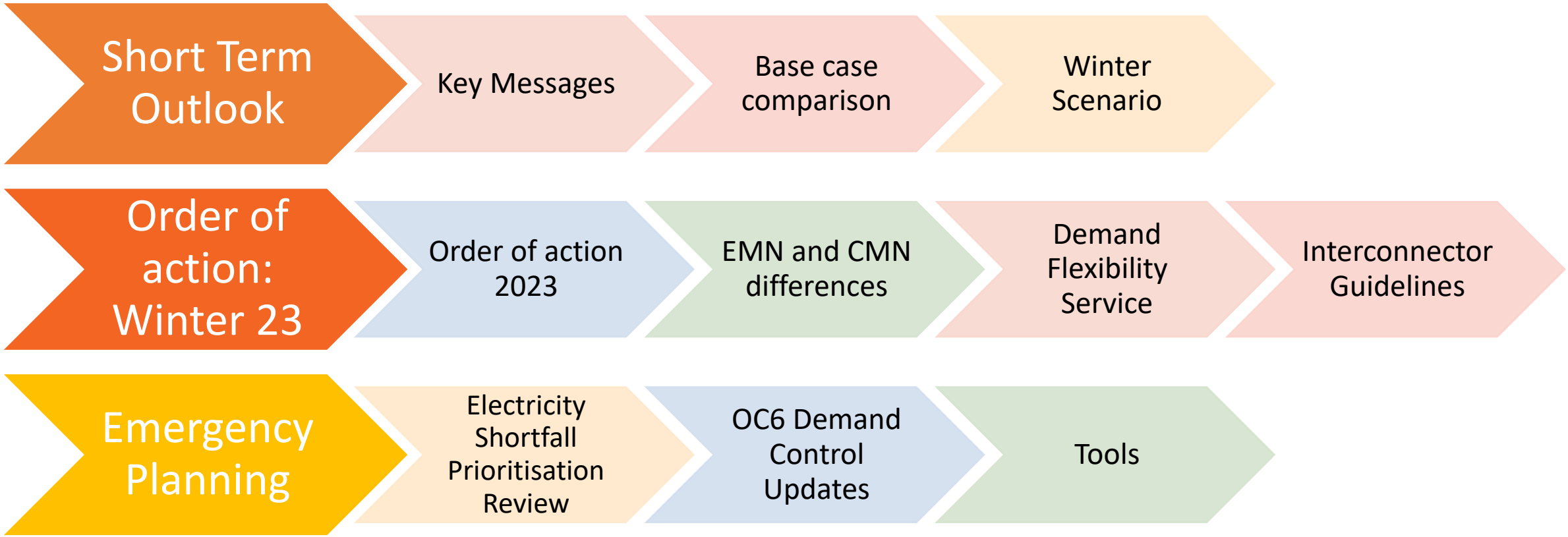
Winter Deep Dive 2023

Russell Woodman – Short Term Operability Manager

John Zammit-Haber – Energy Security Senior Manager

ESO

Winter Operations



Key Messages / Winter Outlook 2023/24

1. Margins

Margins are slightly higher than last winter under our Base Case. Under normal market conditions margins are expected to be adequate and within the Reliability Standard.

Our Base Case margin is 4.4 GW / 7.4%, which is slightly higher than last year and broadly in line with recent winters. The associated loss of load expectation (LOLE) is 0.1 hours.

We expect there to be sufficient operational surplus in our Base Case throughout winter.

There may be some days when margins are tighter and we may need to use the tools in our standard operational toolkit, including use of system notices.

2. Reciprocal support with neighbouring countries

We will continue to work closely with our neighbours in Europe, adopting a coordinated approach providing reciprocal support.

Close co-operation between European system operators through reciprocal support has played an important role in helping maintain secure supplies for customers in Great Britain and Europe.

This will continue this winter, leading to periods when imports flow from Europe when we need them, provided by the market and / or ESO trading, which is an important operational tool for us.

Where there is sufficient market surplus, we expect there to be periods when exports flow from Great Britain to Europe, including over some peak periods.

3. Winter preparations

We have taken steps to build resilience and minimise the potential impact of further risks and uncertainties in the energy markets.

We continue to actively engage with Government, Ofgem, National Gas Transmission and industry stakeholders to ensure we understand and mitigate any emerging risks for winter and that we are well prepared.

We have also announced our intention for the return of the Demand Flexibility Service that incentivises customers to voluntarily flex the time they use energy to help us manage the system this winter.

Base Case / Comparison to last winter

The de-rated margin in our Base Case for this winter is 4.4 GW (7.4%), which is slightly higher than last year's margin of 3.7 GW (6.3%).

The main drivers of the increase are:

more generation being available;

more battery storage and demand-side response since last winter.

Offset by:

lower assumptions on electricity interconnectors;

lower de-rating factors for storage;

an increase in our assumptions for ACS peak demand including operating reserve.

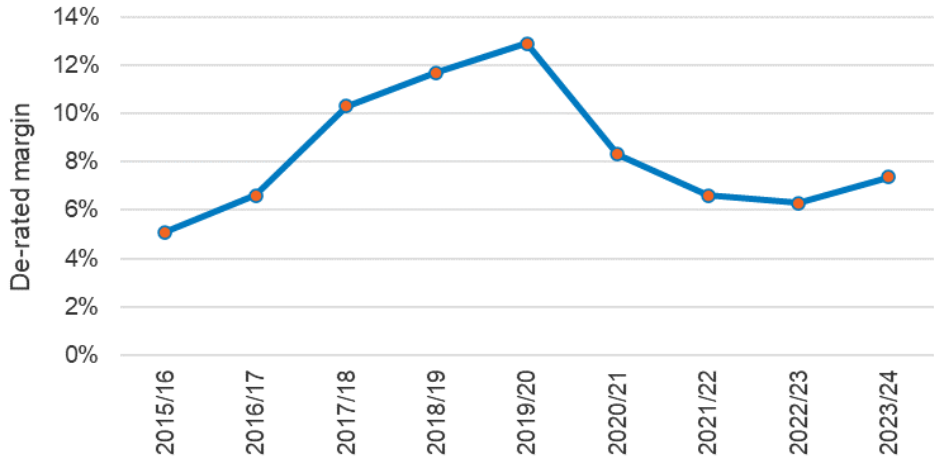


Figure 1. Historic de-rated margin forecasts made ahead of each winter in the Winter Outlook Report (i.e. not out-turns)

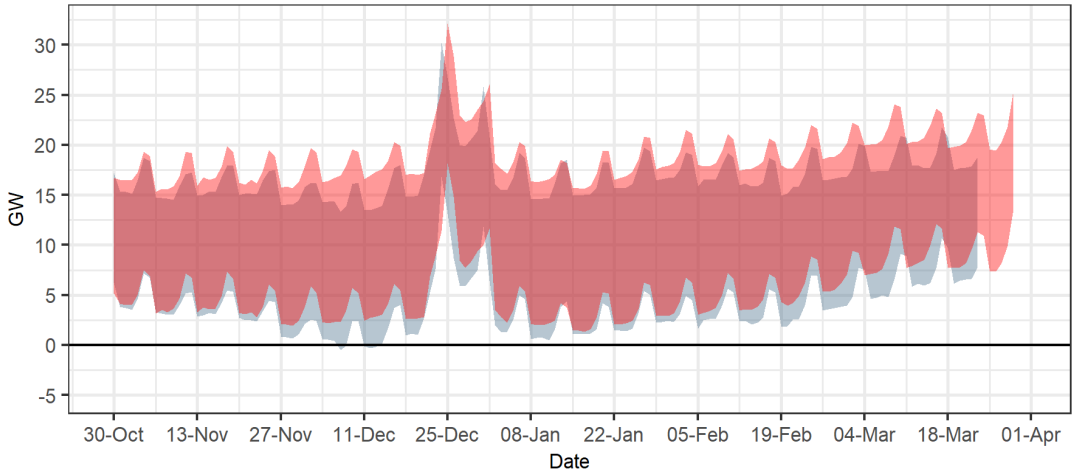


Figure 2. Daily credible range of operational surplus for this winter (red plume) compared with the credible range in last winter's outlook report (blue/grey plume)

Winter Scenarios

As a prudent system operator we continue to prepare and plan for a wide range of eventualities, even those that may be considered less likely.

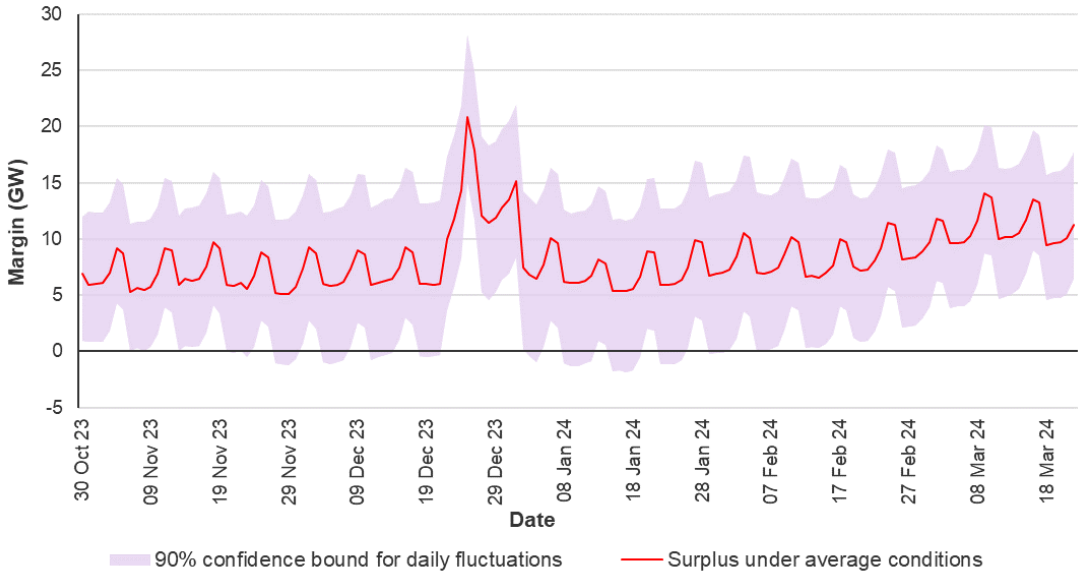


Figure 3. Credible range of daily operational surplus for an illustrative scenario of reduced electricity supplies (but including 2GW of DFS)

Order of Action – Winter 2023/24

Sli.do code #OTF

Everyday Actions	Order	Comments
Reconfigure Transmission Network to reduce network congestion: Change substation running arrangements, Tap Quad Boosters, and make use of enhanced ratings	Normal operating practice – no cost	Changing daily operating conditions can result in different network configurations to reduce congestion
Review and refine reserve requirement within day dependent on system conditions	Normal operating practice – no cost	Changing system conditions can relieve requirements for reserve or increase requirements. This can change at any time as the conditions change.
All deliverable Offer action on all available BM participants	#1 based on Cost	Scheduled from Day Ahead, action taken in real time – some offers may not be available due to network congestion
Issue warming instructions to cold BM participants	#1 based on Cost	Scheduled from Day Ahead, action taken in real time
Buy energy from continental Europe	#1 based on Cost	Scheduled from Day Ahead, action taken from Day Ahead to 4hrs ahead of time by ESO Traders
Reconfigure CCGTs to increase available energy (e.g.sync additional GTs)	#1 based on Cost	Scheduled from Day Ahead, managed within the control timescales within day
SO-SO trade in cost order	#1 based on Cost	SO to SO trade with other SO in Europe/ Ireland

Enhanced Actions (if everyday actions are insufficient)	Order	Comments
Recall TO assets from outage to increase network availability and available capacity	#2	Anytime through to control room timescales, depending on ERTS (Emergency Return to Service) time
Net Transfer Capacity (NTC) restrictions	#3	Required to ensure interconnector flows remain within operation security limits. Used as a last resort after all commercial actions and system optimisations have been taken.
Plan use of Emergency Assistance (EA) from other SO	#4	Enacted close to real-time. Only applicable if capacity is available on interconnectors. EA can be withdrawn at any time
Instruct Demand Flexibility product	#5	Instructions can be made at 14:30 day ahead, and 09:00 or 12:00 within day.

Emergency Actions (if enhanced actions are insufficient)	Order	Comments
Emergency Instruction (EI) to other SO	#6	Only applicable if this does not cause demand control in the interconnected countries.
Use of MaxGen	#6	This should be used at the same time as EI to other SO. This service will be initiated by the issuing of an Emergency Instruction.
OC6 demand control instructions to DNOs	#7	This could be via voltage control or demand control up to 40% demand rota disconnections, protecting critical sites.

Emergency Powers (if emergency actions are insufficient)	Order	Comments
ESEC instructed by DESNZ	#8	ESO implement rota disconnections within ESEC framework.

Notices are issued at any time as required	Comment
Issue Electricity Margin Notice (EMN)	Request to market to increase available energy or reduce demand. Likely to be issued at Day Ahead. Updated regularly
Issue a High Risk of Demand Reduction (HRDR) system warning	Warning network operators of high likelihood of demand control. Further request to market to increase available energy or reduce demand. Closer to real-time than ENM
Issue Demand Control Imminent (DCI) system warning	If possible, this system warning will be issued 30 minutes prior to demand control. Warning to network operators
A Capacity Market Notice (CMN) is automatically triggered to alert CM participants	Driven by calculation of Market data at 4 hours ahead of real time
Optional: Anticipated Requirement Notice (ARN)	ARN issued if DFS may be required for Day Ahead or Within day. Issued between 8am and 10am.

A reminder: Comparison of Capacity Market Notice (CMN) and Electricity Margin Notice (EMN)

CMN	vs	EMN
Automated	Trigger	Manual
500MW **above** margin requirement	Threshold	500-800MW **below** margin requirement
Not included	Constraints	Included
4 hours out (for initial alert)	Lead time	Flexible
CM Agreement holders put on notice that risk of System Stress Event is elevated	Expected response	Provision of additional energy where possible
Capacity Market Notices Website	Publication	Balancing Mechanism Reporting Service
Aimed at CM agreement holders	Focus	Operationally focused

separate and not sequential

Demand Flexibility Service

DFS will continue as an enhanced action for winter 2023-24

Demand Flexibility Service - changes

Procurement

Added within-day dispatch options

Delivery & Process

Removed the domestic in-day baseline adjustment.

Allowing opt-out as well as opt-in

Tests

Removed “onboarding” and “regular” test with “DFS tests” for all providers on the same day.

Role of test, number and GAP laid out in the Market Information Report

Automation

Introducing automation for daily MPAN duplication checks.

Introducing rule that latest sign-up “wins”.

Introducing automation option for bid submission.

Participation

Allow asset metering in place of boundary metering where certain criteria and conditions are met

Requiring HH-settlement for all meters, except providers on a domestic boundary and Profile Class 3&4

Interconnector Guidelines

We will utilise all market based solutions before enhanced/emergency actions on the interconnectors.

We will restrict capacity using NTCs/ITLs once all trading, BM and SO-SO actions have been taken if margins will result in an EMN or HRDR being issued

We are maintaining importance of operational liaison before and on the day to ensure mutual support is provided from and to neighbouring TSOs where possible.

We will make every effort possible to provide assistance to neighbouring TSOs provided it does not require disconnection of GB consumers.

In liaison with affected TSO Emergency Instruction (EI) can be used to reduce exports to 0MW but cannot reverse the flow.

In extreme scenarios (eg. ESEC) the restriction of interconnector capacities and use of EI will be considered in liaison with affected TSOs to minimise disconnection of GB consumers

Context & Electricity Shortfall Prioritisation Review (ESPR)

Tightening winter margins and additional risks impacting the availability of electricity supply

Increased focus on the tools the ESO would use to reduce demand

Concerns raised about the lack of any protection under OC6

DESNZ lead Electricity Shortfall Prioritisation Review (ESPR)

Headlines from Autumn 2022

OC6 Demand Control Updates

Change	Purpose	Benefit	Dispatch
GC0161 (OC6.5.3)	To remove wording in OC6 that prevents the protection of particular consumers or not to unduly discriminate/ prefer particular customers.	Up to 20% Demand Disconnection, where technically possible, critical sites will be protected.	No Notice Enact within 5 mins
GC0162 (OC6.5.4-5)	To clarify/amend the operational timings for the delivery of the additional demand reduction between 20% and 40%	20 - 40% Demand Disconnection, where technically possible, critical sites will be protected.	Day ahead - 16:00 HRDR 1st 20% in 5 mins, each additional 5% block 5 mins e.g. 30% = 15 mins
New Rotations Protocol	Introduce a new demand reduction tool for margin shortfall scenario.	Allow the protection of key sites and rotation of the Demand Blocks.	~10 hours Notice Rotation of Demand Blocks (5% blocks) for three periods.

Tools to manage generation shortfall

OC6 voltage reduction

- Short notice
- Short duration
- <5% demand reduction
- No customer disconnections

OC6 demand control

- Short notice
- Short duration
- 5% to 40% demand reduction
- Customer disconnections
- ESO determine disconnection required and instruct DNOs
- DNO implement disconnections in pre-prepared 5% blocks
- Critical sites protected where technically possible

Demand Control Rotation Protocol

- Protocol will follow the general ESEC principles.
- Use the same block period timings 8 x three hour Will use same Rota and Activation schedule formats as ESEC
- Initiated with DESNZ/OFGEM/DNO Industry call.
- DNOs need at least 6 hours notice from the Industry call to enact.
- Does not require Secretary of State direction to enact.
- Critical sites protected where possible

ESEC

- Longer notice
- Prolonged duration
- 5% to 90% demand reduction
- Customer disconnections
- ESO determine disconnection required and instruct DNOs under Government direction
- DNOs implement rota disconnection in pre-prepared 5% blocks, under Government direction
  - Variable rota disconnections as per ESEC document
  - Priority Sites List

Reminder about answering questions at the ESO OTF

- **Questions from unidentified parties will not be answered live**. If you have reasons to remain anonymous to the wider forum please use the advance question or email options. Details in the appendix to the pack.
- **Questions will be answered in the upvoted order whenever possible**. We will take questions from further down the list when: the answer is not ready; we need to take the question away or the topic is outside of the scope of the OTF.
- **Sli.do will remain open until 12:30**, even when the call closes earlier, to provide the maximum opportunity for you to ask questions.
- **All questions will be recorded and published** All questions asked through Sli.do will be recorded and published, with answers, in the Operational Transparency Forum Q&A on the webpage: https://www.nationalgrideso.com/what-we-do/electricity-national-control-centre/operational-transparency-forum
- **Takeaway questions** – these questions will be included in the pack for the next OTF, we may ask you to contact us by email in order to clarify or confirm details for the question.
- **Out of scope questions** will be forwarded to the appropriate ESO expert or team for a direct response. We may ask you to contact us by email to ensure we have the correct contact details for the response. These questions will not be managed through the OTF, and we are unable to forward questions without correct contact details. Information about the OTF purpose and scope can be found in the appendix of this slide pack

slido

Audience Q&A Session

ⓘ Start presenting to display the audience questions on this slide.

Feedback

Please remember to use the feedback poll in sli.do after the event.

We welcome feedback to understand what we are doing well and how we can improve the event for the future.

If you have any questions after the event, please contact the following email address:
box.NC.Customer@nationalgrideso.com

Appendix

Purpose and scope of the ESO Operational Transparency Forum

Purpose

The Operational Transparency Forum runs once a week to provide updated information on and insight into the operational challenges faced by the control room in the recent past (1-2 weeks) and short term future (1-2 weeks). The OTF will also signpost other ESO events, provide deep dives into focus topics, and allow industry to ask questions.

Scope

Aligns with purpose, see examples below:

In Scope of OTF

Material presented i.e.: regular content, deep dives, focus topics
ESO operational approach & challenges
ESO published data

Out of Scope of OTF

Data owned and/or published by other parties
e.g.: BMRS is published by Elexon
Processes including consultations operated by other parties e.g.: Elexon, Ofgem, DESNZ
Data owned by other parties
Details of ESO Control Room actions & decision making
Activities & operations of particular market participants
ESO policy & strategic decision making
Formal consultations e.g.: Code Changes, Business Planning, Market development

Managing questions at the ESO Operational Transparency Forum

- OTF participants can ask questions in the following ways:
  - Live via Sli.do code #OTF
  - In advance (before 12:00 on Monday) at https://forms.office.com/r/k0AEfKnai3
  - At any time to box.NC.Customer@nationalgrideso.com

- **All questions asked through Sli.do** will be recorded and published, with answers, in the Operational Transparency Forum Q&A on the webpage: Operational Transparency Forum | ESO (nationalgrideso.com)
- **Advance questions** will be included, with answers, in the slide pack for the next OTF and published in the OTF Q&A as above.
- **Email questions** which specifically request inclusion in the OTF will be treated as Advance questions, otherwise we will only reply direct to the sender.
- **Takeaway questions** – we may ask you to contact us by email in order to clarify or confirm details for the question.
- **Out of scope questions** will be forwarded to the appropriate ESO expert or team for a direct response. We may ask you to contact us by email to ensure we have the correct contact details for the response. These questions will not be managed through the OTF, and we are unable to forward questions without correct contact details. Information about the OTF purpose and scope can be found in the appendix of this slide pack

ESO's Winter Markets Forum

We are delighted to announce details of our next Markets Forum.

Date: 8th November (in person event only)

9am : Breakfast session (optional) Building blocks of transmission charging

10am-4pm : Main event: An overview of our key market priorities, interactive breakout sessions, industry roundtable panel, Q&A concluding with an optional post event networking

Location: Park Plaza Hotel, Westminster Bridge, London

Sign up here

In the meantime, if you have any questions or items you'd like to see included on the day, contact Karen Thompson-Lilley (Markets Customer & Stakeholder Strategy Manager) at karen.thompson-lilley@nationalgrideso.com

Cross Border Balancing Webinar – 19th October 2023

Following Brexit, National Grid ESO have been working with a market expert, Compass Lexecon, on the market options for Cross Border Balancing.

National Grid ESO and Compass Lexecon are inviting you to the Cross Border Balancing Webinar on **19th October 2023**.

In this webinar we will be sharing with you the results of the modelling of market options on Cross Border Balancing and you will have an opportunity to ask questions to both NGESO and Compass Lexecon.

You can register for the event here.

We look forward to welcoming you at this webinar.

Dynamic Moderation Requirement

As mentioned in the latest Frequency Response Products Market Information Report, based on a review of system conditions, we have increased DM requirements and value DM volumes in offsetting our minimum dynamic response requirements.

We are implementing this change in a phased manner. The first step, to firmly procure 100MW of DM for all EFAs started on **1st October**.

We will continue reviewing our requirements and communicate further changes via the DM requirement forecasts publication.

EBR Article 18 Consultation for Balancing Reserve

Please note that National Grid ESO have now launched an EBR Article 18 Consultation on the contractual terms for a Balancing Reserve service.

The consultation opens until **17:00 on 26 October 2023**. Balancing Reserve consultation documents can be found on our website via the link/button below, and include:

- Balancing Reserve Service Terms
- Balancing Reserve Procurement Rules
- Consultation Proforma

Other supporting documentation is also provided.

Please review the documentation and provide your responses using the Consultation Proforma. Your response should be sent to: box.futureofbalancingservices@nationalgrideso.com, and please use 'Balancing Reserve Consultation Response' in the return subject line.

View Consultation Documents

Request for feedback – Per BMU wind forecast publishing

ESO is seeking to be more transparent and publish the individual wind BMU forecasts it creates and uses, in addition to the currently published total GB forecast.
This new publication would eventually include day-ahead forecast and within-day forecasts.

Initially, ESO will publish the data with anonymised (or removed) IDs. However, in due course, we would seek to publish the forecasts alongside their recorded BMU ID and/or recognised official windfarm name.

At this time, we are seeking any feedback/concerns/comments, which we will consider before publishing the latter BMU ID forecasts.

Please leave your feedback via the link, and feel free to share this with any other interested parties.

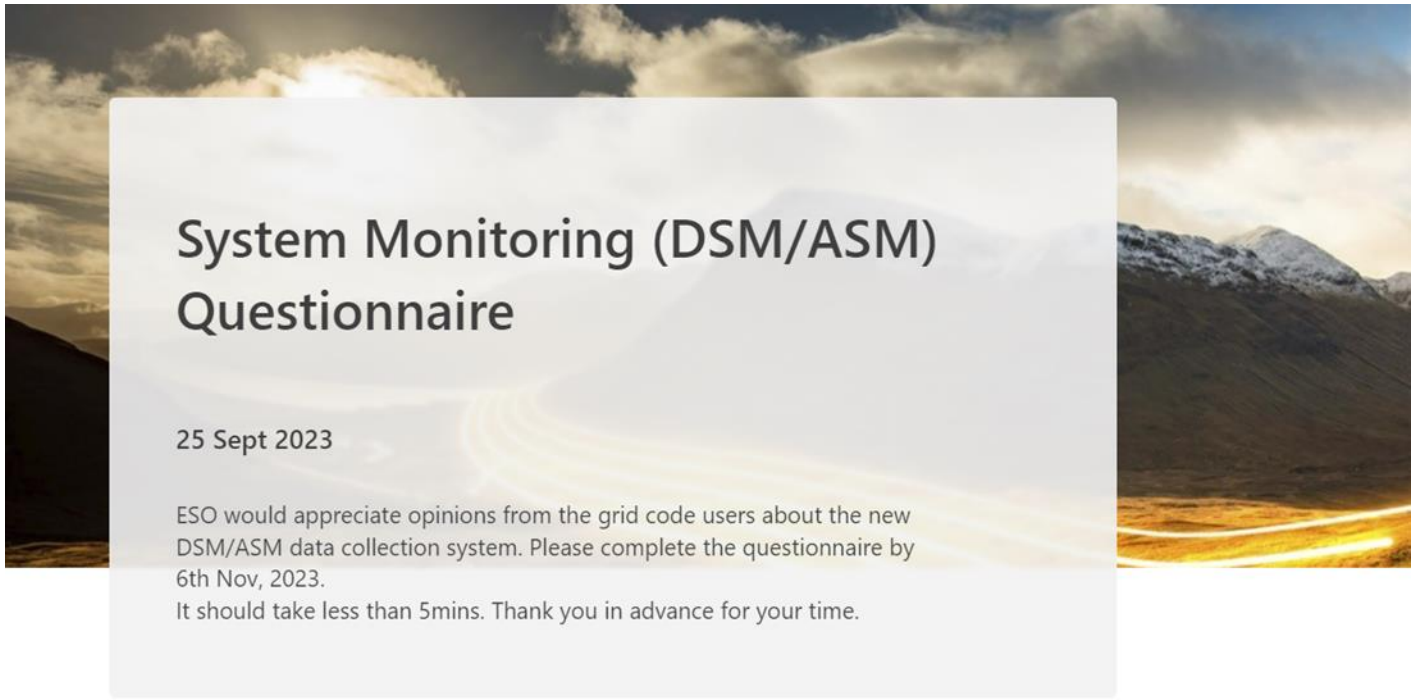
This link will remain active for 3 weeks, until **Monday 23 October**.

System Monitoring (DSM/ASM) Questionnaire

ESO is in the process to design a new system to seamlessly access Dynamic System Monitoring (DSM) data and Ancillary Services Business Monitoring (ASM) data from generation modules and interconnectors in England, Wales and Scotland.

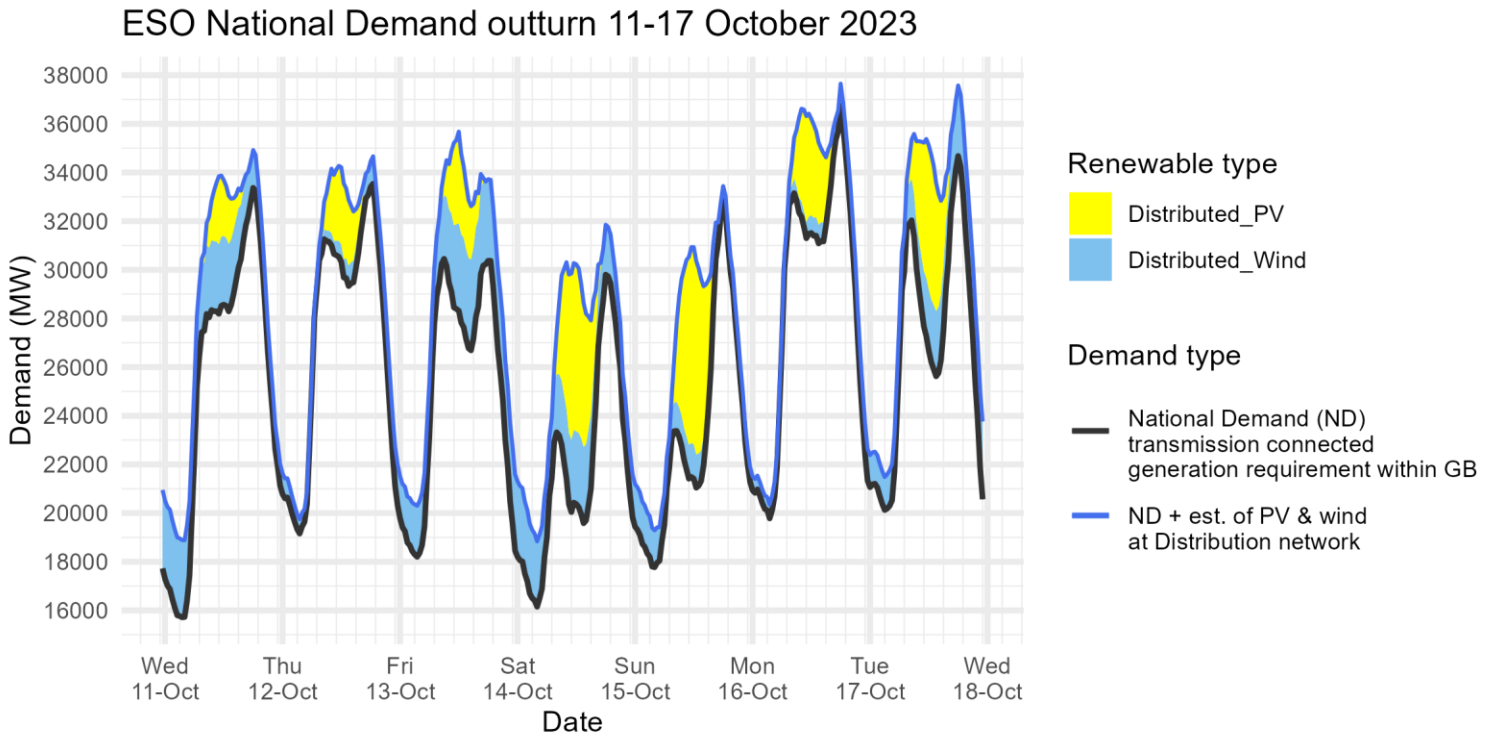
The data will be used to carry out post fault analysis, manage network risk and verify compliance.

ESO would appreciate opinions from you before implementing the project. A questionnaire has been sent out to all grid code users.



If you have not received it yet, please click here to complete the questionnaire or contact us to update your contact detail: box.SystemMonitoring@nationalgrideso.com

Demand | Last week demand out-turn



Date	Forecasting Point	FORECAST (Wed 11 Oct) National Demand (GW)	FORECAST (Wed 11 Oct) Dist. wind (GW)	OUTTURN National Demand (GW)	OUTTURN Dist. wind (GW)
11 Oct	Evening Peak	32.9	1.4	33.4	1.6
12 Oct	Overnight Min	18.9	0.7	19.2	0.6
12 Oct	Evening Peak	33.6	1.1	33.5	1.1
13 Oct	Overnight Min	17.0	2.4	18.2	2.1
13 Oct	Evening Peak	30.5	3.2	30.4	3.4
14 Oct	Overnight Min	14.4	3.1	16.1	2.7
14 Oct	Evening Peak	29.9	2.3	29.8	2.1
15 Oct	Overnight Min	16.7	1.9	17.8	1.5
15 Oct	Evening Peak	32.4	1.4	32.8	0.6
16 Oct	Overnight Min	19.4	0.9	19.8	0.6
16 Oct	Evening Peak	36.5	0.7	36.7	0.9
17 Oct	Overnight Min	21.0	0.6	20.1	1.4
17 Oct	Evening Peak	36.3	1.0	34.7	2.9

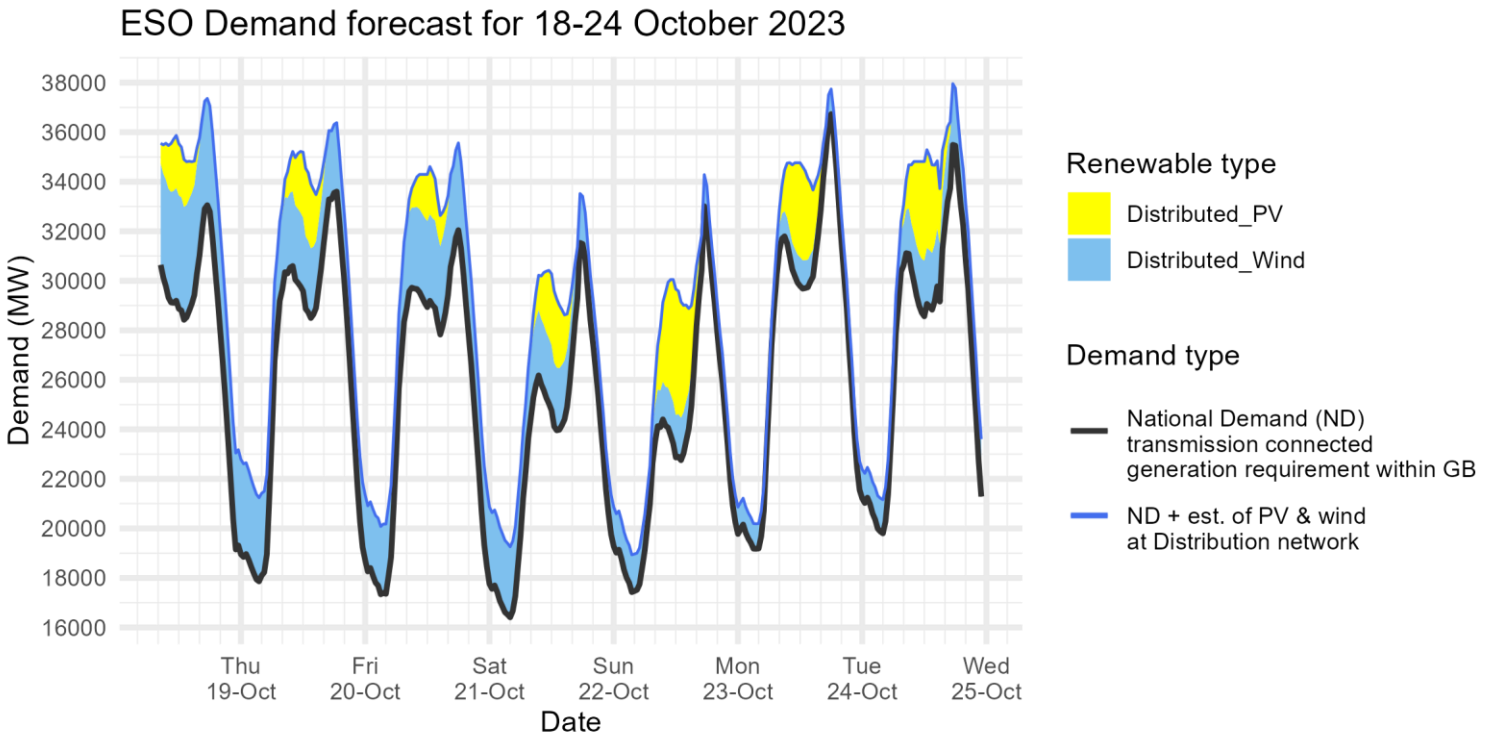
The black line (National Demand ND) is the measure of portion of total GB customer demand that is supplied by the transmission network.

ND values **do not include** export on interconnectors or pumping or station load

Blue line serves as a proxy for total GB customer demand. It includes demand supplied by the distributed wind and solar sources, but it does not include demand supplied by non-weather driven sources at the distributed network for which ESO has no real time data.

Historic out-turn data can be found on the ESO Data Portal in the following data sets: Historic Demand Data & Demand Data Update

Demand | Week Ahead



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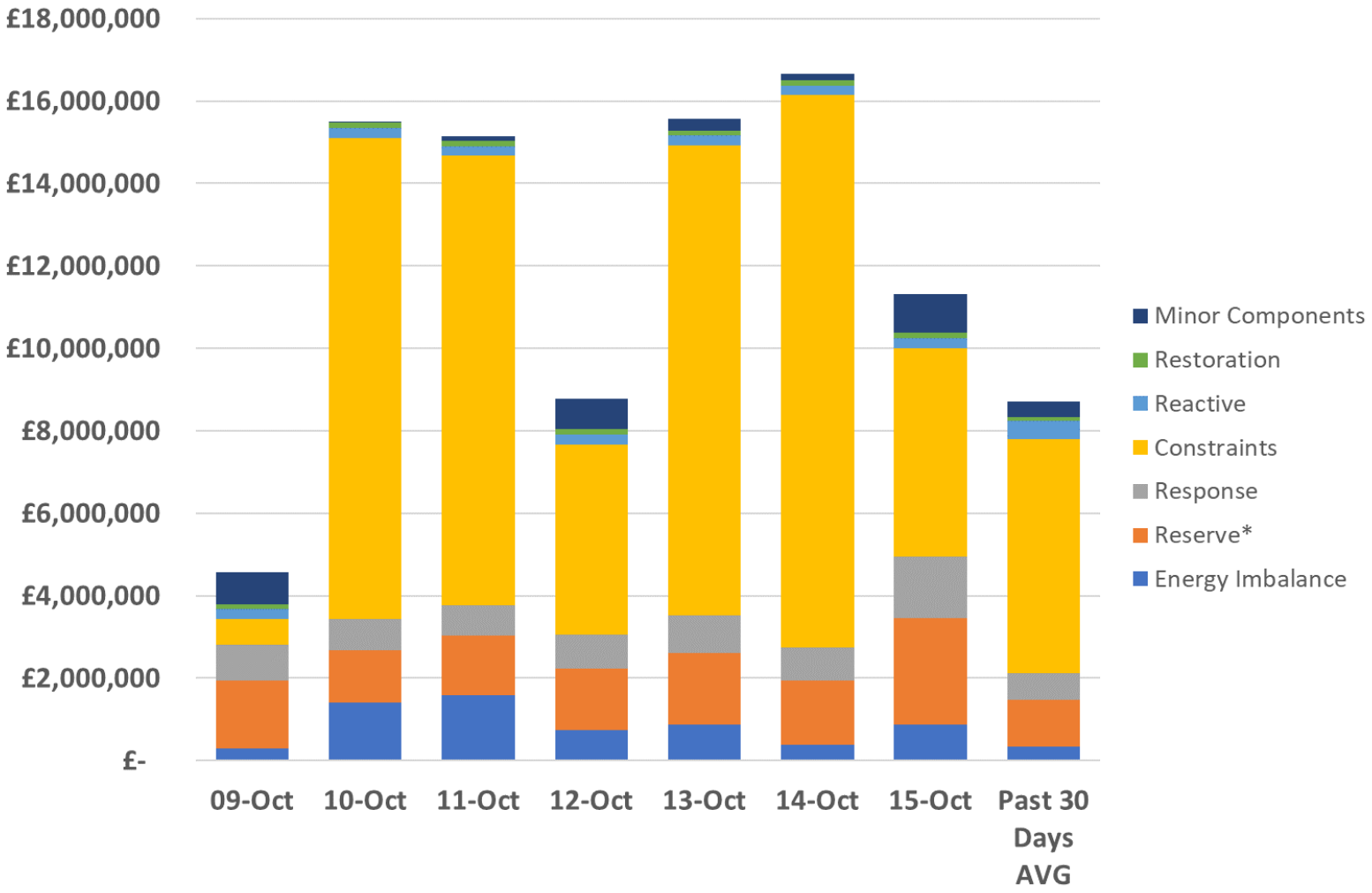
		FORECAST (Wed 18 Oct)	
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)
18 Oct 2023	Evening Peak	33.1	4.3
19 Oct 2023	Overnight Min	17.9	3.4
19 Oct 2023	Evening Peak	33.6	2.8
20 Oct 2023	Overnight Min	17.3	2.7
20 Oct 2023	Evening Peak	32.0	3.5
21 Oct 2023	Overnight Min	16.4	2.9
21 Oct 2023	Evening Peak	31.5	2.0
22 Oct 2023	Overnight Min	17.4	1.5
22 Oct 2023	Evening Peak	33.0	1.3
23 Oct 2023	Overnight Min	19.2	1.0
23 Oct 2023	Evening Peak	36.7	1.0
24 Oct 2023	Overnight Min	19.8	1.4
24 Oct 2023	Evening Peak	35.5	2.2

ESO Actions | Category costs breakdown for the last week



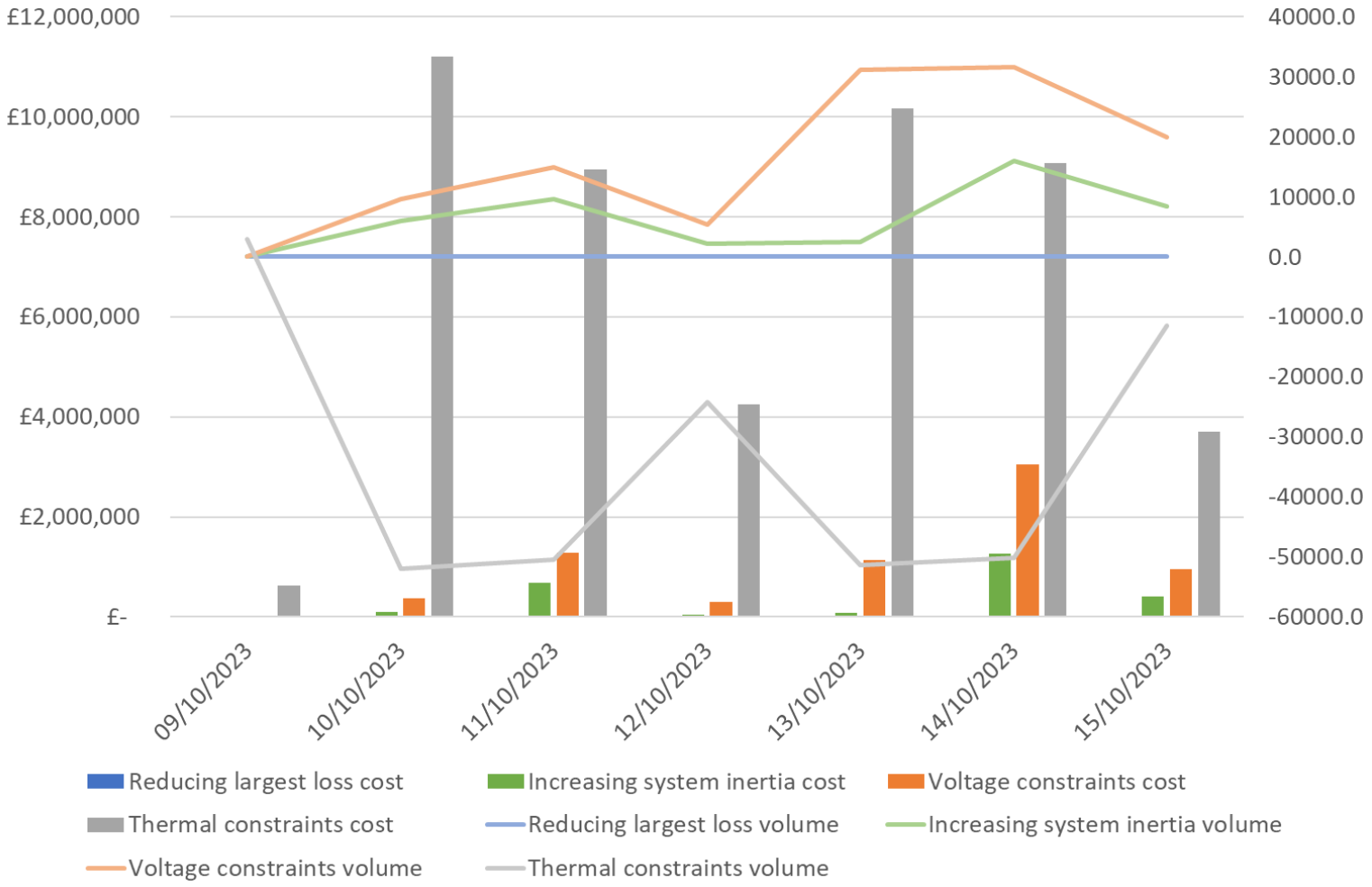
Date	Total (£m)
09/10/2023	4.6
10/10/2023	15.5
11/10/2023	15.2
12/10/2023	8.8
13/10/2023	15.6
14/10/2023	16.7
15/10/2023	11.3
Weekly Total	87.5
Previous Week	58.6

Constraints and Reserve costs were the key cost component for the week.

Please note that all the categories are presented and explained in the MBSS.

Data issue: Please note that due to a data issue on a few days over the last few months, the Minor Components line in Non-Constraint Costs is capturing some costs on those days which should be attributed to different categories. It has been identified that a significant portion of these costs should be allocated to the Operating Reserve Category. Although the categorisation of costs is not correct, we are confident that the total costs are correct in all months. We continue to investigate and will advise when we have a resolution.

ESO Actions | Constraint Cost Breakdown



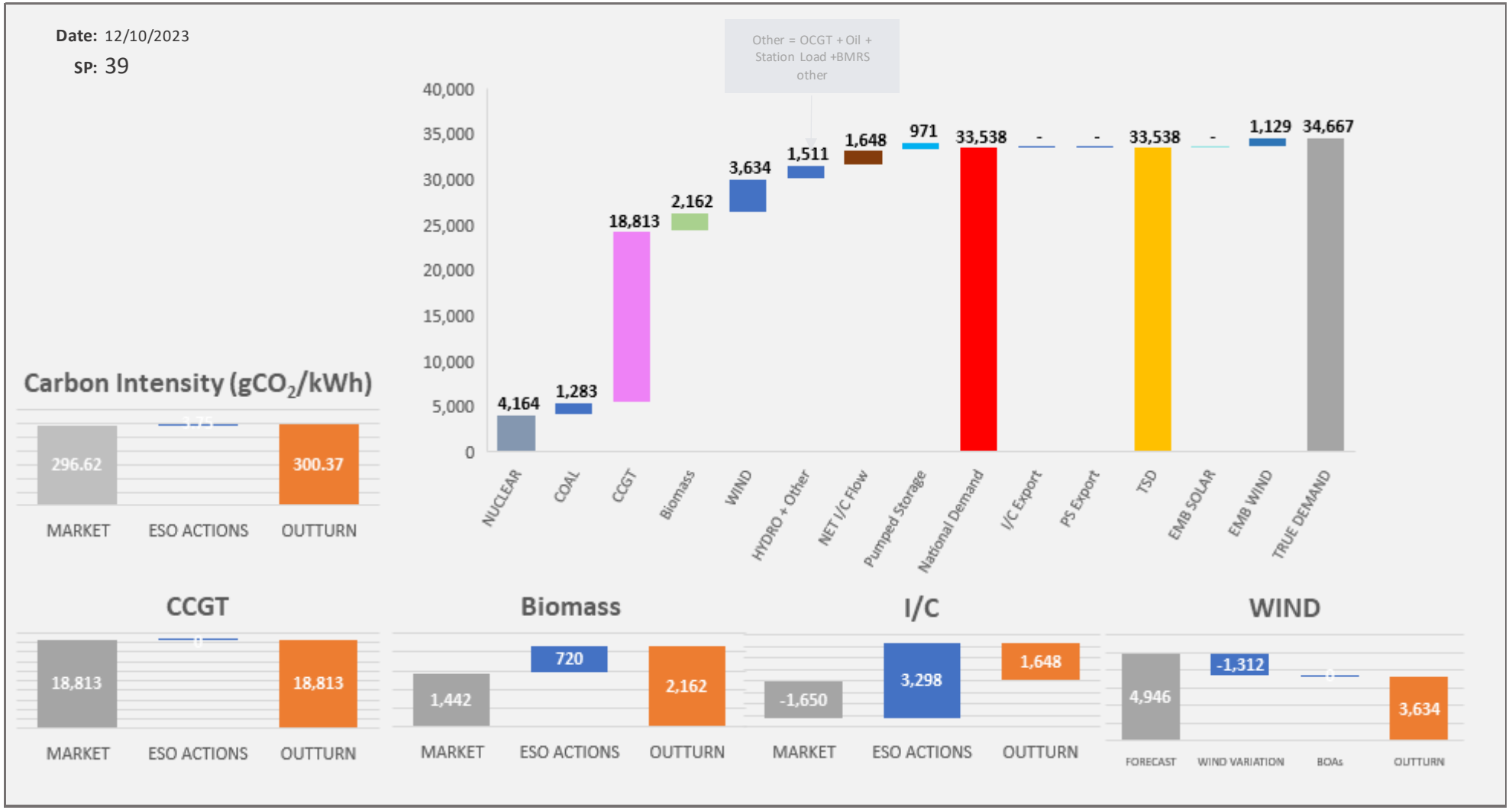
Thermal – network congestion
Actions were required to manage thermal constraints throughout the week with the most significant costs on Tuesday and Friday.

Voltage
Intervention was required to manage voltage levels throughout the week.

Managing largest loss for RoCoF
No intervention was required to manage largest loss.

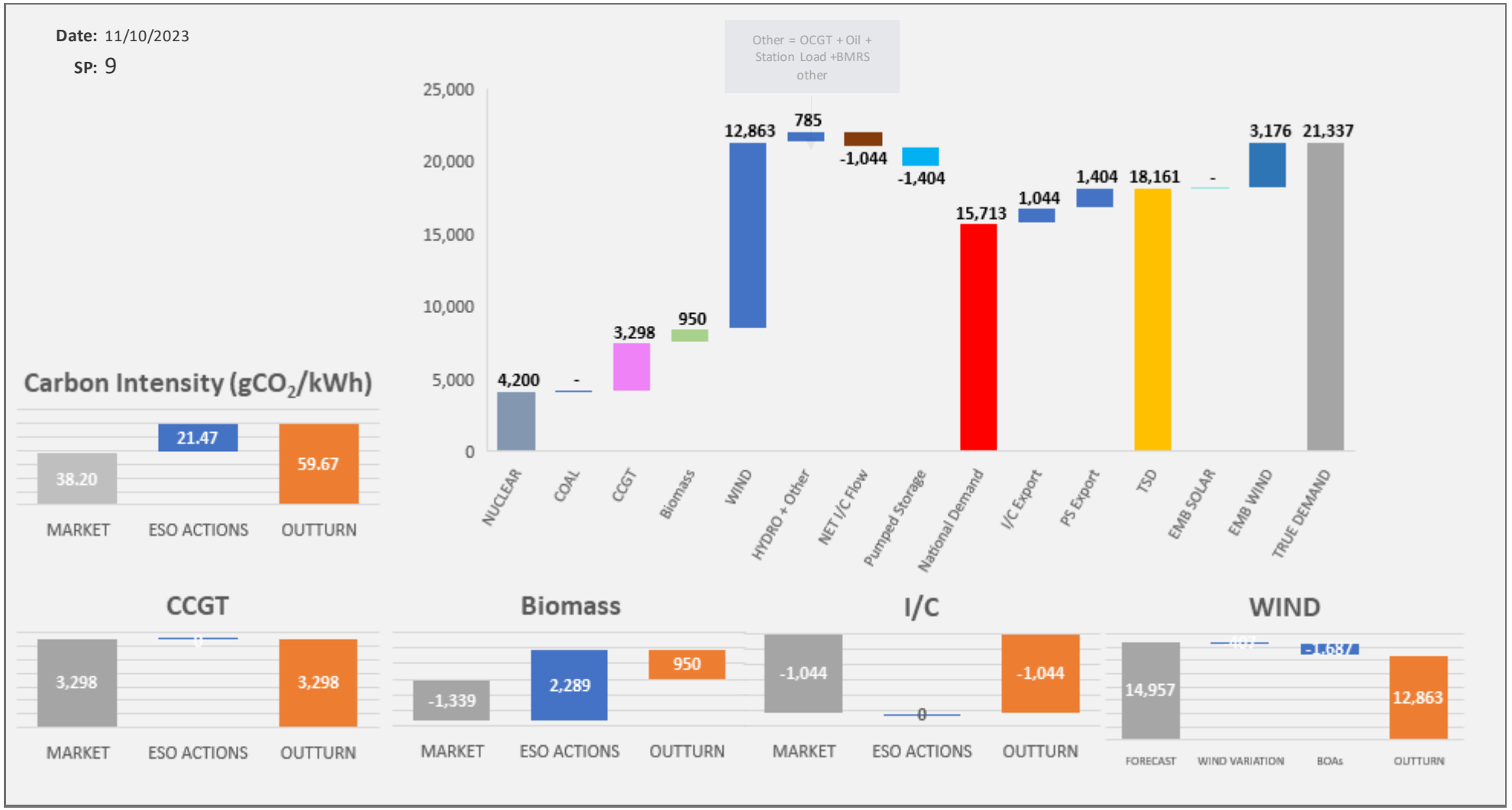
Increasing inertia
Intervention was required to manage System Inertia throughout the week, except for Monday.

ESO Actions | Thursday 12 October – Peak Demand – SP spend ~£309k



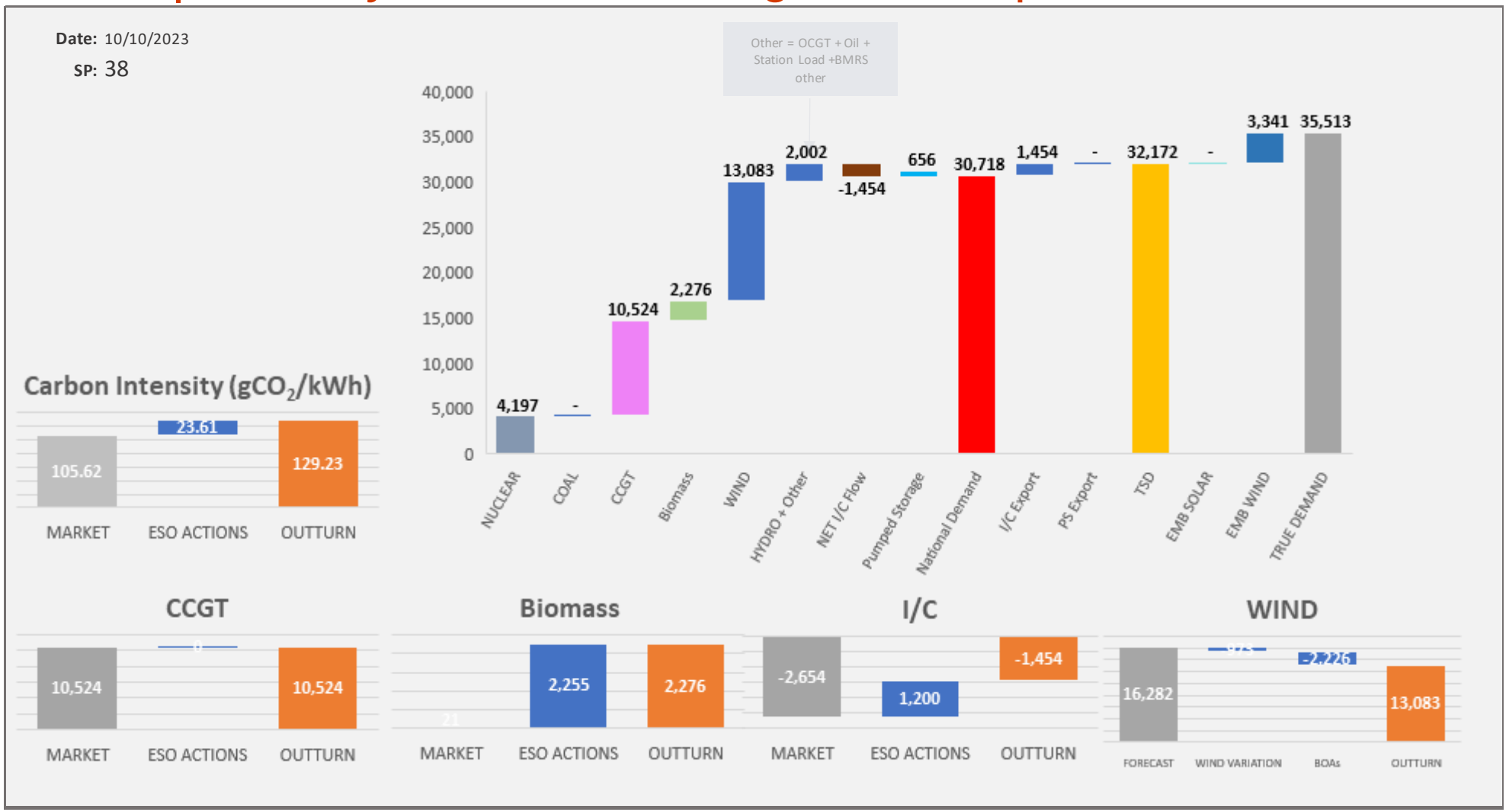
Carbon Intensity data on data portal: https://data.nationalgrideso.com/carbon-intensity1/carbon-intensity-of-balancing-actions

ESO Actions | Wednesday 11 October – Minimum Demand – SP Spend ~£375k



Carbon Intensity data on data portal: https://data.nationalgrideso.com/carbon-intensity1/carbon-intensity-of-balancing-actions

ESO Actions | Tuesday 10 October – Highest SP Spend ~£516k



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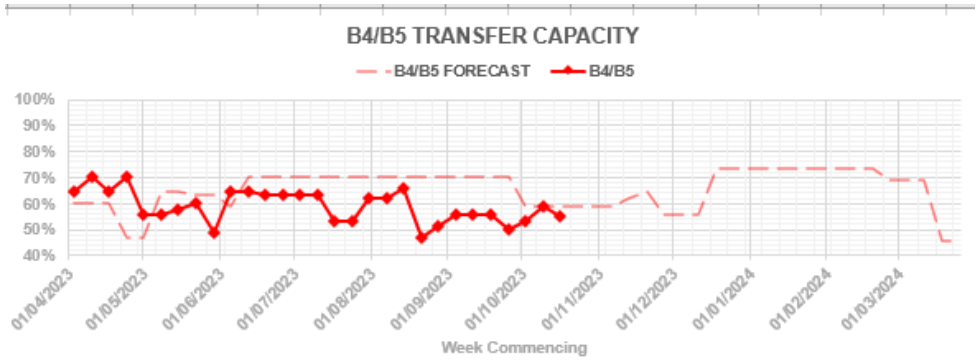
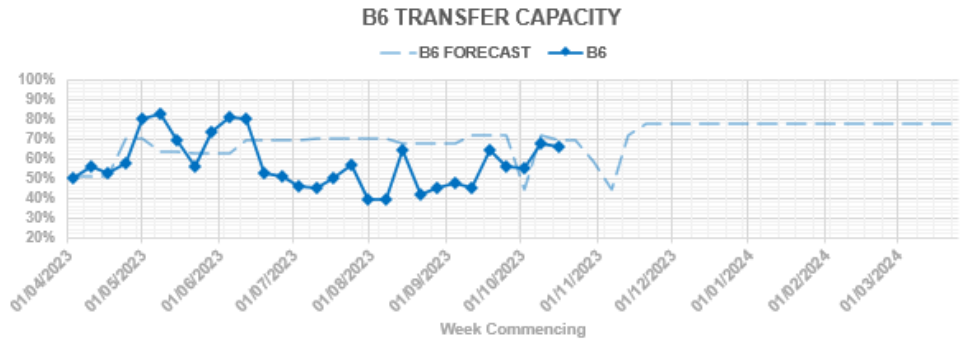
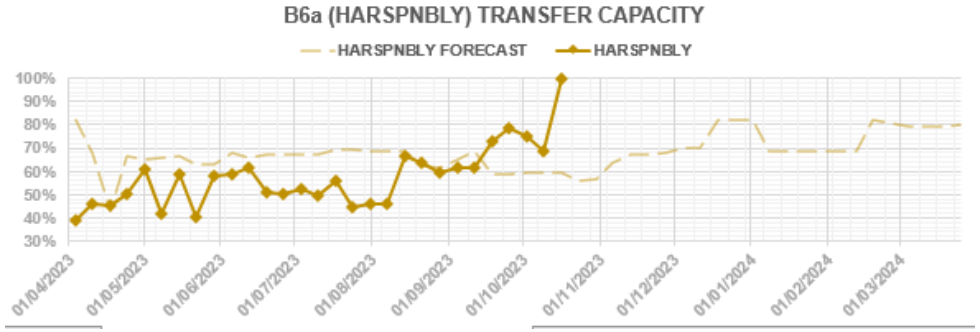
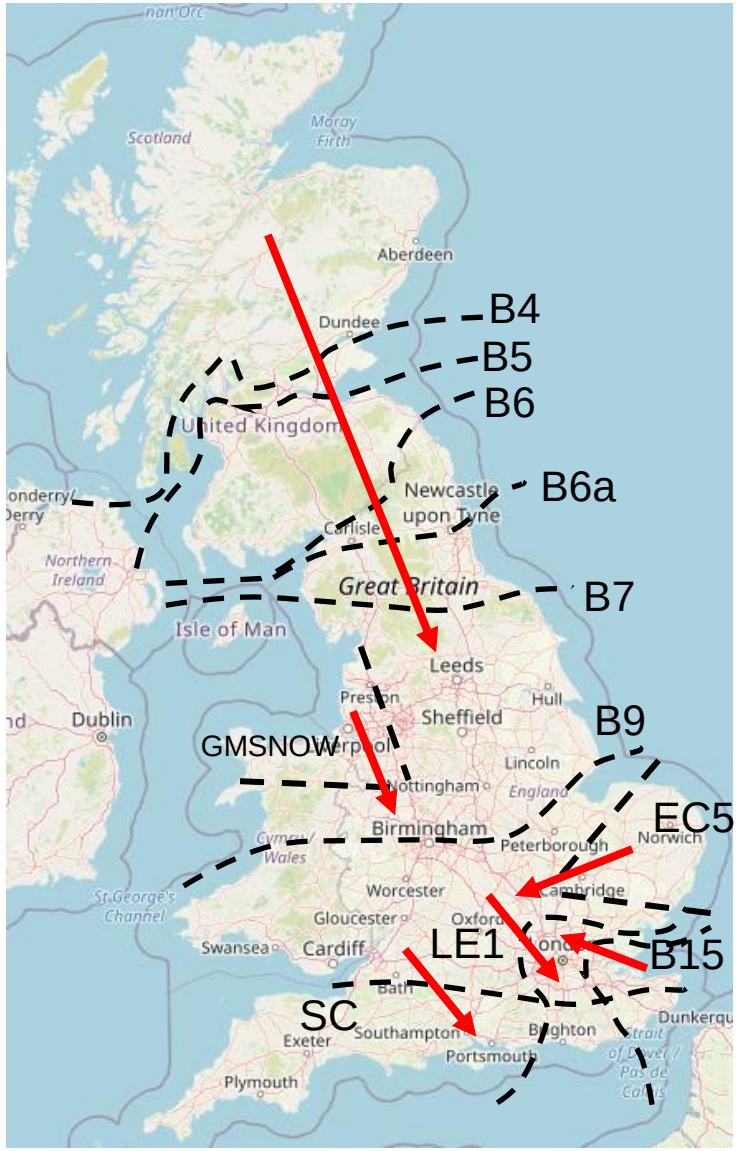
Transparency | Network Congestion





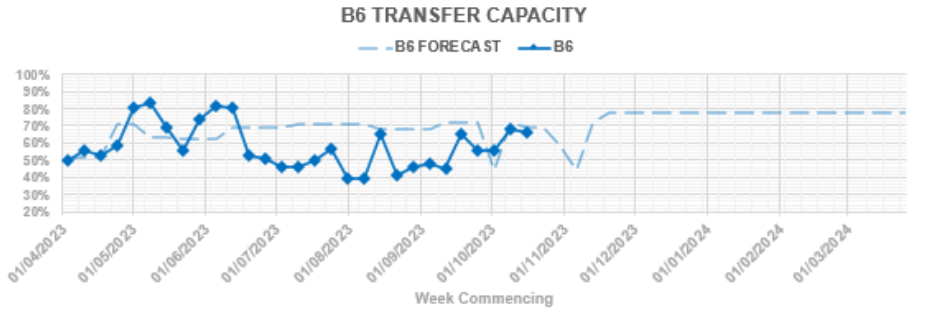


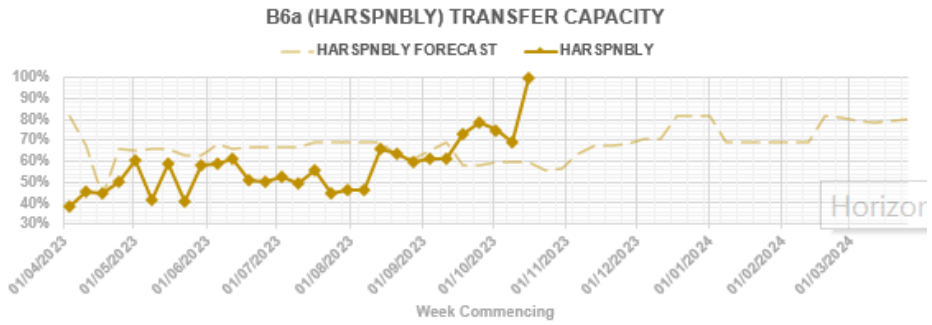
Boundary	Max. Capacity (MW)
B4/B5	3400
B6	6800
B6a	8000
B7	8325
GMSNOW	4700
B9	10600
EC5	5000
LE1	8500
B15	7500
SC	7300

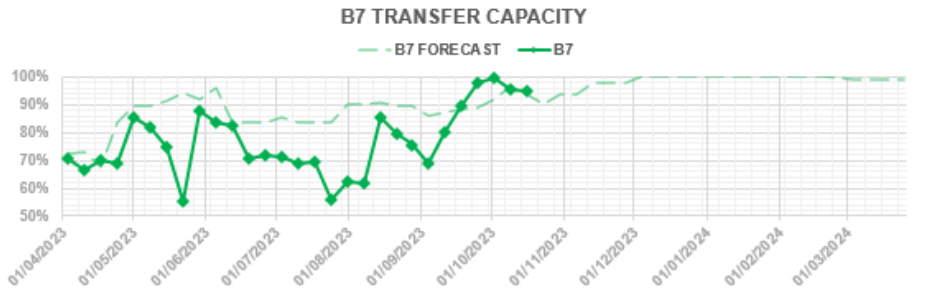


Day ahead flows and limits, and the 24-month constraint limit forecast are published on the ESO Data Portal:
https://data.nationalgrideso.com/data-groups/constraint-management

Transparency | Network Congestion







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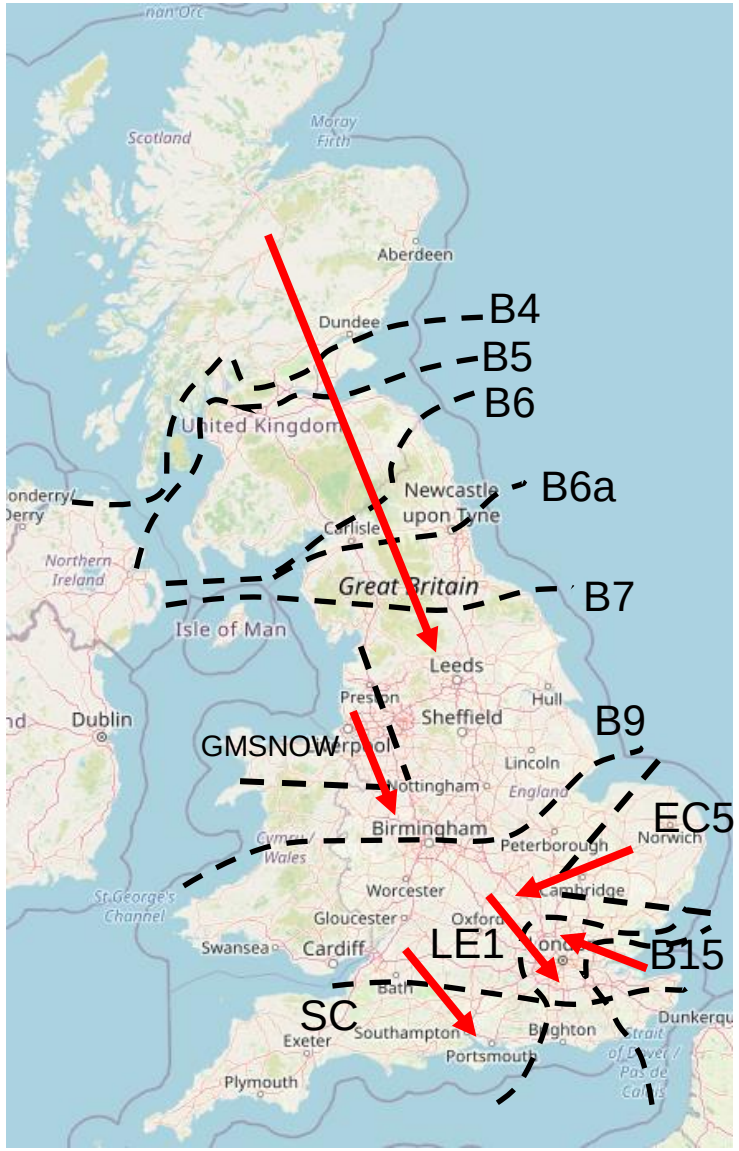

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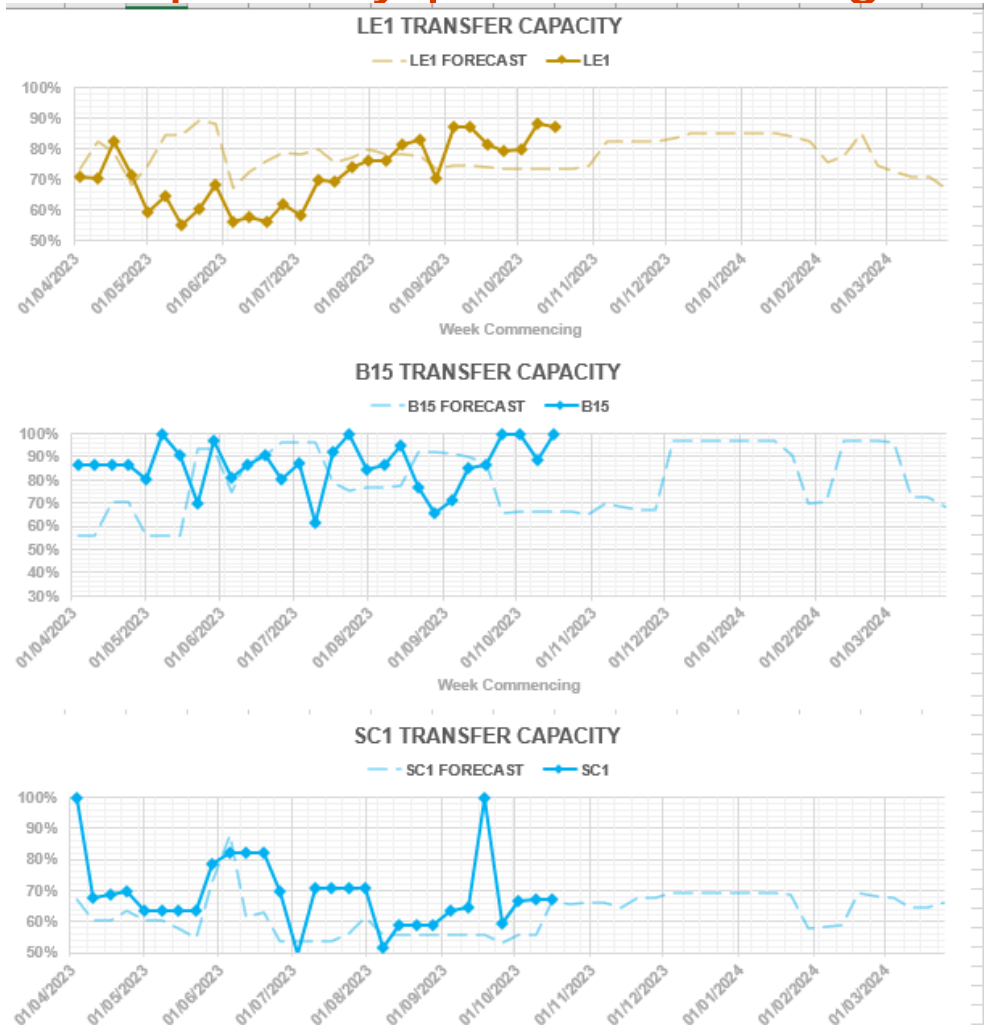

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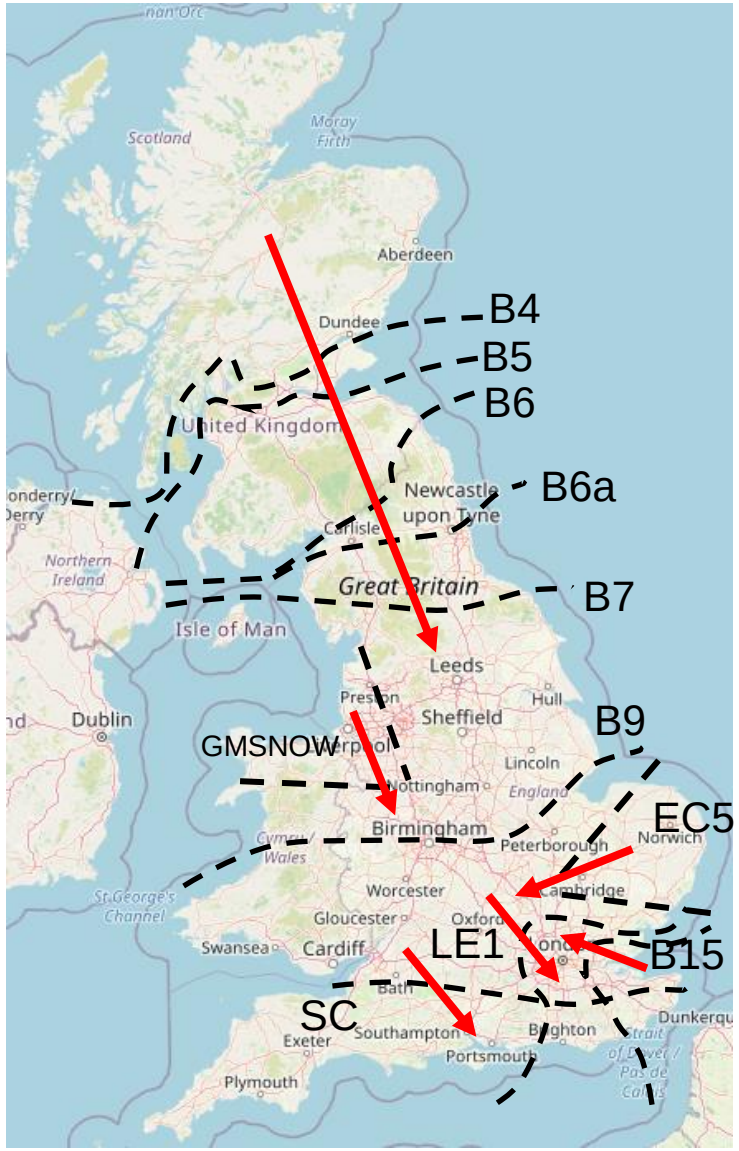

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Previously Asked Questions

Q: The Dispatch Transparency datasets haven't been updated for 14 days now. Please can this be updated frequently and accurately? What look to be fairly obvious skips in the BM are regularly happening and so it's important for the market to see the cause and follow up promptly while they're fresh.

Q: Do ESO have a plan to publish Dispatch Transparency data closer to real time? - always seems to be 2 weeks delayed

A: The dispatch transparency dataset should be published weekly on Wednesday afternoon. We are aware of issues uploading the data recently due to the size of the dataset and we are currently investigating.

We are considering how to take forward our engagement on Dispatch Transparency following the feedback from the event on 2 June, the OTF and other occasions. All of your comments have been included for consideration, and we will definitely be feeding back to the OTF in the near future.

Q: Is there a plan for moving to SP-based DC/DM/DR procurement? We expect that the current EFA-based procurement will be particularly inefficient in Winter, when peak energy prices can be very volatile on periods that cross multiple EFAs (e.g. 17:00 - 19:30). Assets might choose to drop out DC/DM/DR.

A: We keep the service design of our products under regular review to ensure they continue to meet our requirements and minimise costs to consumers. There are no immediate plans to move the dynamic services to Settlement Period based procurement although this topic is in scope of our service reviews.

Previously Asked Questions

Q: Please can we have a list of all the existing bilateral contracts for balancing services in place, size and when they come to an end by each service type.

A: The ESO does have some legacy bilateral contracts to provide specific security services, most of them are Electricity Restoration Services and many of these will come to an end in the short to medium term. Due to the sensitive nature of these contracts we cannot provide any further information such as place and size.

Q: Thanks for answer to my DSM ASM question - but just to clarify, it is not a codified obligation for users to use the new tool (if developed). Correct?

A: Thanks for your question. Firstly, the responsibility remains the same for the Grid Code users (GCUs). DSM data acquisition unit (DAU) has been required to provide both local and remote access capability. The new data collection system will not require extra capabilities from the current DAUs. Also, the new system will be an optimised way for ESO to get access to the data aiming to save time and to simplify the current data collection method for all the GCUs. So, we do recommend all the GCUs to connect to the new system once its live. There could be exceptions for the GCUs who can demonstrate that they were not required to provide remote access to their DAUs by their time of connection.

Advanced Questions

Q: What are the api endpoints for the new EAC auction results?

A: We have referred this question to the appropriate team and will provide a response in a future OTF.

Outstanding questions

Q: Is it worth providing further context on constraint costs? Recent rise in gas prices has inflated the turn on costs to ~2/3rds of total. Those turn on costs also have to be incurred under any feasible dispatch so do you agree they shouldn't really be considered an additional system running cost?

A: Can you please provide clarification regarding this question and what context you are looking for exactly?

Q: Is DC, DR and DM provision performance routinely checked based on the data you receive as part of the service terms, can you provide a summary of the overall performance ? Thanks Christopher

A: Can you please provide clarification – are you referring to volumes and prices or enforcement of rules?

Q: The DC procurement forecast history (and probably other) dataset has recently been given two different date formats. Could NGESO consolidate on one date/datetime format? It would make data handling with your date much easier. Thank you:)

A: We have reached out via email as we cannot see any differences in formatting in the dataset we believe are you referring to.

Q: you are buying more and more inertia which is understandable with so much a-synchronous plant replacing sync. gen on the system. But how much of this is from the Stability PF contracts & how much BM? You said you'd publish these contracts/ utilisation and are they in your total weekly Bal. cost?

A: We have referred this question to the appropriate team and will provide a response in a future OTF.