Public

You have been joined in listen only mode with your camera turned off

Live captioning is available in Microsoft Teams

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

NESO Operational Transparency Forum

12 March 2025

NESO
National Energy System Operator

Introduction | Sli.do code #OTF

To ask questions live & give us post event feedback go to Sli.do 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 below.
- **The OTF is not the place to challenge the actions of individual parties** (other than the NESO), and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketreporting@nationalenergyso.com
- **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 12:00**, even when the call closes earlier, to provide the maximum opportunity for you to ask questions. After that please use the advance questions or email options below.
- **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.
- **Ask questions in advance** (before 12:00 on Monday) at: https://forms.office.com/r/k0AEfKnai3
- **Ask questions anytime** whether for inclusion in the forum or individual response at: box.nc.customer@nationalenergyso.com

Stay up to date on our webpage: https://www.neso.energy/what-we-do/systems-operations/operational-transparency-forum (OTF Q&A is published with slide packs)

Note: to access previous OTF webinars from Slido click on the three lines to the left of forum title

Future deep dive / focus topics

Slido code #OTF

Today's Focus Topics/deep dives

BM Registration and the Single Markets Platform

Future

NESO Market Monitoring activities – 19 March

February Balancing Costs – 26 March

Overview of NESO System Access Planning process – 2 April (postponed from 12 March)

To be confirmed – 9 April

March Balancing Costs – 16 April

There will be no OTF on 23 April (week after Easter)

If you have questions/suggestions of areas to cover during above presentations or ideas for deep dives or focus topics you would like us to consider, please send them to us at: box.nc.customer@nationalenergyso.com

NESO National Energy System Operator

Slido code #OTF

Future Event Summary

Event	Date & Time	Link
Pre-Fault Frequency Control Modelling Webinar	12th March 2025 (13:30-15:00)	Register here
Skip Rates methodology and datasets drop-in session	12th March 2025 (15:00-16:00)	Register here
Quick Reserve Phase 2 – Launch of EBR Article 18 consultation	14th March 2025	Provide your response here
Frequency Risk and Control Report (FRCR) 2025 Consultation Webinar	19th March 2025 (13:00-14:00)	Register here
Quick Reserve Phase 2 – IT integration drop-in sessions covering OBP, Settlement and Operational Metering	Weekly from 20 March till 10 April (10:30 – 11:30)	Register here
Response Reform Webinar	26th March (15:00-16:00)	Register here
Joint C9 and Dynamic Response A18 Consultation	7th April 2025	Provide your response here

Check out the NESO Events Calendar for more...

Slido code #OTF

Frequency Risk and Control Report (FRCR) 2025 Consultation: 3rd – 31st March 2025

- In line with SQSS requirement, NESO is obliged to produce an annual FRCR report and consult with industry on the assessment and policy recommendation presented in the report on how we manage frequency risks.
- **We will be consulting on the 2025 version of FRCR between the 3rd and 31st March 2025.** The associated documents is published on FRCR webpage.
- NESO is proving **integrated technical assurance** whereby Accenture, with whom NESO has an Engineering Services Framework, is performing an independent review. The phase 1 report is now available on FRCR webpage.
- We are holding a webinar on **Wednesday 19th March 13:00-14:00**, mid-way through the consultation period to provide further insight into the proposal and take any initial feedback on the proposals ahead of the consultation period closing.
- To further facilitate your understanding of FRCR 2025 modelling approach and data used, please refer to the recordings of
  - FRCR 2025 Technical Webinar 1 Framework and Methodology
  - FRCR 2025 Technical Webinar 2 Model and Data

Please send your response proforma to box.FRCR@nationalenergyso.com or complete the online Response Form by 5pm on Monday 31st March 2025

Please register your interest for the webinar using this link

Quick Reserve update

Slido code #OTF

- A reminder that the Quick Reserve Phase 2 EBR Article 18 consultation closes on **14 March 2025**
- Please be aware that the consultation has design changes that impact **all Quick Reserve providers** and is not just to enable access to the service for non-BM providers.
- The main proposed change, applicable from go live of Phase 2, which affects all providers (BM and non-BM) is the **requirement to submit (via API) Performance Metering data to NESO** for post-event performance monitoring.
- Please refer to the Performance Metering Data Specification published on our website.
- We encourage all Quick Reserve providers (new and existing) to review the EBR Article 18 consultation pack. The summary document outlines all proposed changes from the live Quick Reserve service.

Slido code #OTF

Future Control Strategy

- Specific workstream focussing on ensuring the structure of roles and responsibilities in the ENCC and supporting functions are appropriate for the future power system.
- Currently developing understanding of new/ evolved capabilities that are needed and want to reach out to discuss with key external stakeholders.
- If you want sign up for updates on Future Control Strategy:

  Sign up here

Response Reform March Webinar

Slido code #OTF

Join us for the March Response Reform Webinar on **26 March 15:00 – 16:00**

This webinar will focus on the **Future of Mandatory Frequency Response** (MFR) as we share a draft service design for **real-time Dynamic Response** with opportunity for industry to share initial thoughts and time for Q&A.

Sign up here.

If you have any questions, contact: box.futureofbalancingservices@nationalenergyso.com

NESO
National Energy System Operator

Joint C9 and Dynamic Response A18 Consultation

Slido code #OTF

Respond to the ad hoc C9 and Dynamic Response A18 consultation before **17:00 07 April 2025**.

NESO have launched a joint ad hoc C9 Consultation which introduces changes for Quick Reserve Phase 2 launch, as well as C9 changes for ABSVD* for Response and an Article 18 consultation to facilitate the application of ABSVD to Non-Balancing Mechanism Units (Non-BMUs) in the Dynamic Response Market.

Access the consultation document for full proposals and details on how to respond.

If you have any questions, contact: balancingservices@nationalenergyso.com

*ABSVD – Applicable Balancing Services Volume Data Understanding Applicable Balancing Services Volume Data for Secondary BM Units - Elexon BSC

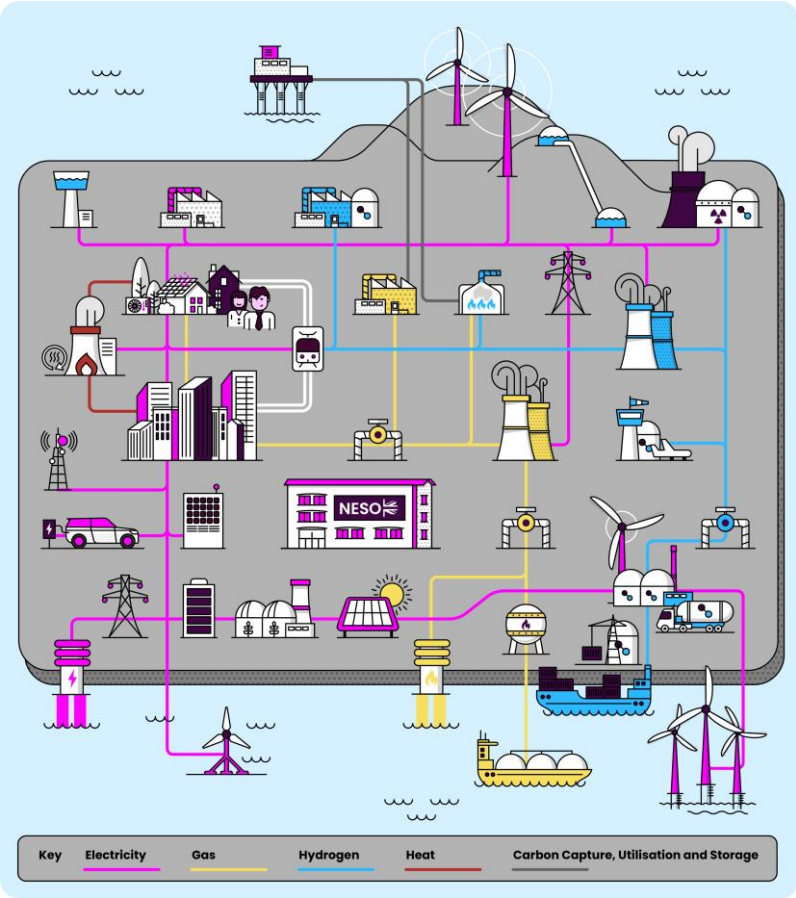
NESO National Energy System Operator

Slido code #OTF

Balancing Mechanism (BM) Registration & the Single Markets Platform (SMP)

NESO
National Energy System Operator

Introduction to BM Registration



In order to participate in the Balancing Mechanism (BM) an asset must register with both Elexon and NESO. There is also a requirement to establish specific communications links with the NESO Control Room.

An asset or group of assets is registered as a Balancing Mechanism Unit (BMU). This is the level at which the control room will then issue instructions.

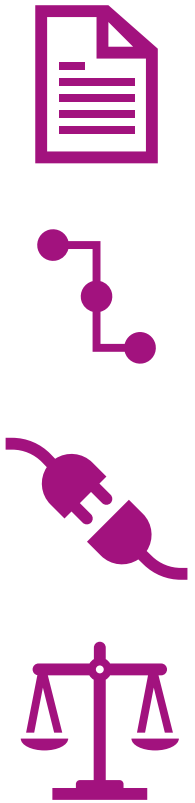
Each BMU can be instructed to increase or decrease their energy output or absorption to balance the system and may also complete additional registration to provide additional Balancing Services.

For more information: [Balancing Mechanism Wider Access | National Energy System Operator]

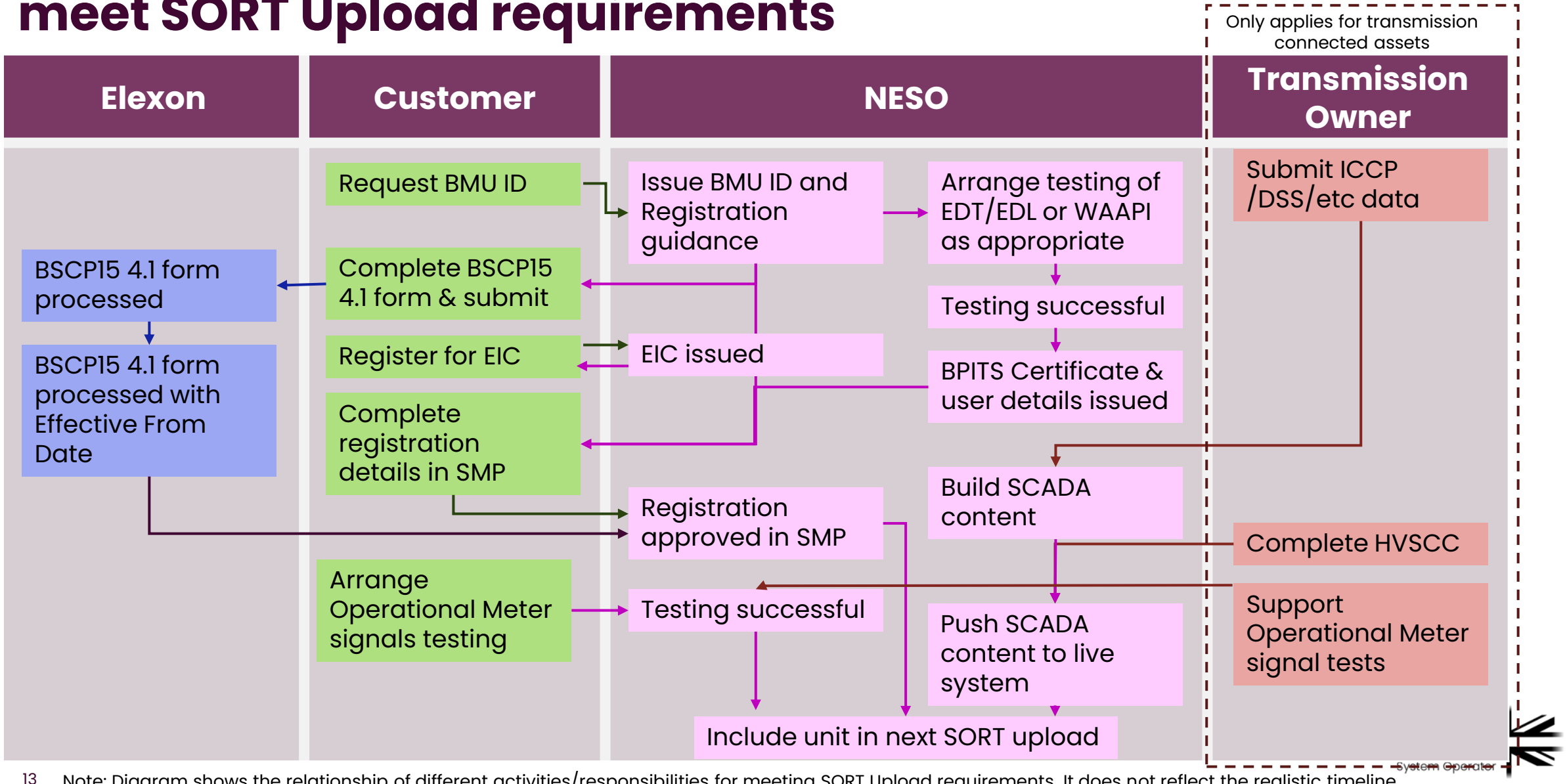
NESO
National Energy System Operator

BM Registration process at high level

- Contact NESO bmu.registration@uk.nationalenergyso.com to obtain BMU ID, confirm requirements and obtain registration pack
- Contact Elexon bscservicedesk@cgi.com to confirm requirements and complete registration form BSCP15 4.1 (Balancing and Settlements Code Procedure 15 applies)
- Set up NESO SMP account (not necessary for existing users) Single Markets Platform | National Energy System Operator
- Provide details required for NESO BM registration in Single Markets Platform
- Complete testing of communication links for submission of data to BM and receiving instructions (not necessary if using an existing link)
- Register for Energy Identification Code (EIC) box.lio@nationalenergyso.com
- For transmission connected units, the Transmission Owner will have specific actions to complete before a unit can be integrated to the NESO transmission control systems (not required for embedded/distribution connected units)
- Complete testing of Operational Meter signals OpsMetering@nationalenergyso.com
- Be included in the NESO SORT upload. SORT (System Operation in Real Time) is the system which the control room use to send instructions to BMU



Overview of activities and responsibilities to meet SORT Upload requirements



Note: Diagram shows the relationship of different activities/responsibilities for meeting SORT Upload requirements. It does not reflect the realistic timeline

What is changing and why?

We are changing the way we manage registrations for the Balancing Mechanism (BM).

In February 2025 we began moving the BM registration processes to the Single Markets Platform (SMP). This will bring BM Registration in line with Balancing Services.

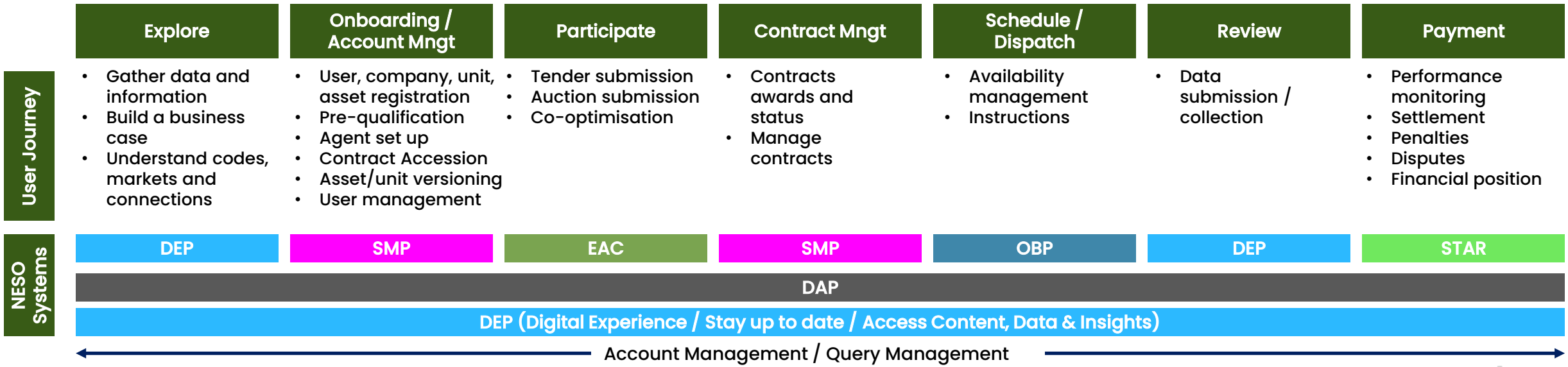
This enables customers to input and update their unit data directly and upload required documentation to SMP. This in turn allows automatic validation which can reduce the time needed for some process steps and improving data quality.

We have also been moving the registration records for active BM units into SMP

The records for other registered units including interconnectors and related units will be transferred at the end of March.

Introduction to the Single Markets Platform

- SMP was initially developed to support NESO's ambition to "Be a Better Buyer" of balancing services
- SMP is a digital product that supports the onboarding and contracting processes of day ahead markets within the wider NESO technical landscape (balancing services user journey shown below)
- SMP operates as an agile project with 30+ releases since February 2022 supported by regular industry / user engagement
- BM Registration processes have now migrated to SMP. Benefits include a more visible digital process, ability to access APIs to register multiples of embedded assets, opportunity to enhance process further within SMP backlog



Acronyms - **DEP** – Digital Engagement Platform (inc Website & Data Portal) / **EAC** – Enduring Auction Capability / **OBP** – Open Balancing Programme / **STAR** – Settlements and Revenue (System) / **DAP** – Data and Analytics Platform

Moving to SMP - What are the benefits?

By moving the NESO registration process to SMP, we are enabling more flexibility and visibility for market participants. We have listened to customer feedback and where possible we have removed barriers. Some of the benefits are listed below:

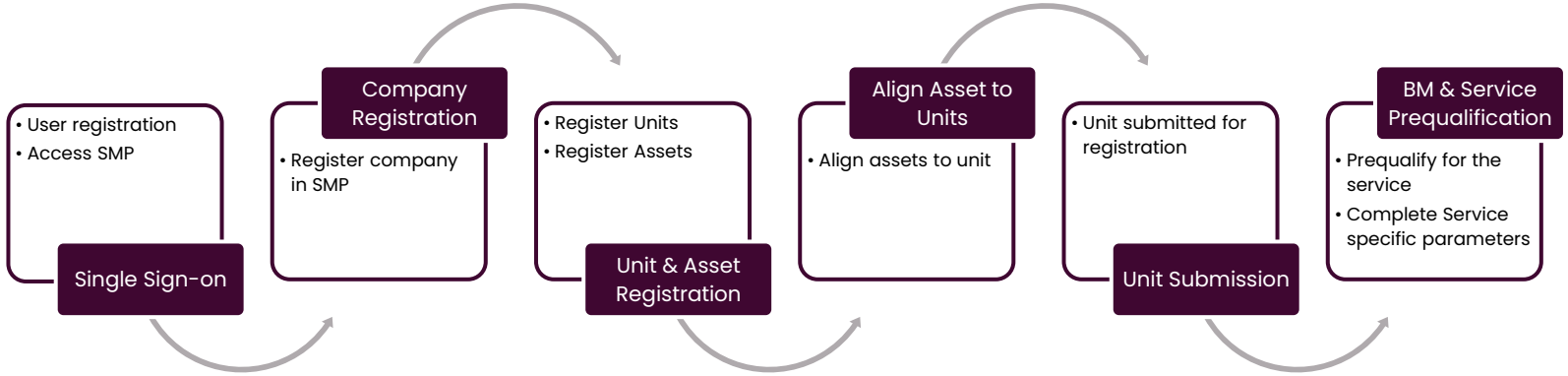
- All Balancing Mechanism Unit (BMU) IDs are now generated by the BMU Registration Team – this includes Small BMU (SBMU) IDs allowing market participants to accelerate processes
- All units will be visible in SMP, making pre-qualification for Balancing Services on SMP more efficient (no duplication of effort)
- Market participants responsible for applications and data, and can action changes and movements*
- More visibility over registered BMUs and active market participation
- Super Users within your organisation to grant access rights to colleagues
- SMP backlog actively prioritised based on regular user engagement (monthly Show and Listen)
- SMP API will be developed to allow automation where possible and data uploads for large aggregated BMUs

*certain fields within SMP can only be edited by NESO

NESO National Energy System Operator

Registration Process in SMP

- No change in the BM Registration process
- Manual BM registration process has moved to SMP.
- BM Registration data will now be visible to users through their access to SMP enabling self-service
- This puts the data back in providers hand whilst still ensuring that the BM Reg team retains the gate keeper role ensuring compliance.



PDF

Registration Process

Note: units must be BM compliant before entering into balancing Services

NESO National Energy System Operator

Next steps

Please note: registration requirements have changed over time and also differ between BM and non-BM.

This means, depending on the length of time a unit has been registered and the type of registration, customers may be asked to provide additional information about a unit.

- Before 31 March:
  - SMP Users to validate migrated data and notify Registration team of changes needed to ensure their unit details are correct and complete.
  - We will support SMP Users (see next slide)
  - Registration and SMP teams will prepare remaining legacy data for migration (Interconnector and Supplier BMU data scheduled for migration from 28 March).
- After 31 March
  - All new registrations for BM and Balancing Services will be completed in SMP
  - Interconnector and Supplier Base Units will be migrated to SMP

What resources are available to support customers?

Slido code
#OTF

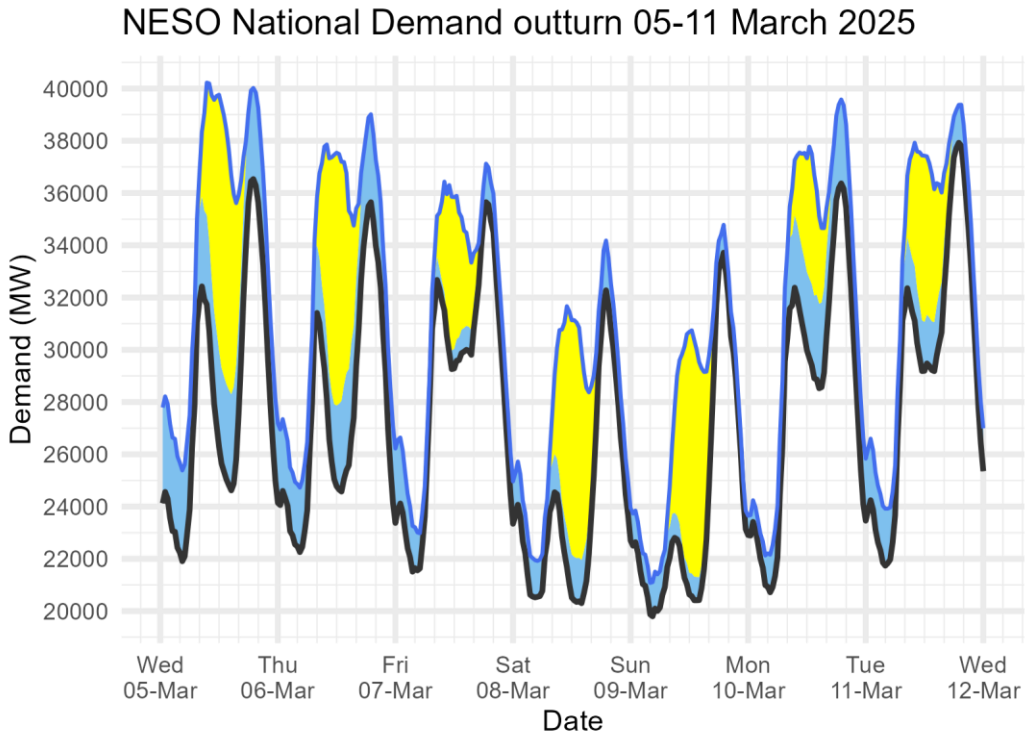
Single Markets Platform team:
- Show and Listen
- Webpage (Market Information tab) Single Markets Platform | National Energy System Operator

Registrations:
- Daily drop in surgeries
- Onboarding and Registration Webinar – 20 March
- .box.bmu.registration@nationalenergyso.com
- Balancing Mechanism Wider Access | National Energy System Operator

SBMU Virtual Lead Party Registrations:
- commercial.operation@nationalenergyso.com
- Balancing Mechanism Wider Access | National Energy System Operator

Demand | Last week demand out-turn

Slido code #OTF



Distributed generation

Peak values by day

	OUTTURN	
Date	Daily Max Dist. PV (GW)	Daily Max Dist. Wind (GW)
05 Mar 2025	10.0	3.7
06 Mar 2025	9.7	3.7
07 Mar 2025	5.9	2.7
08 Mar 2025	9.1	1.9
09 Mar 2025	9.3	1.4
10 Mar 2025	5.0	3.3
11 Mar 2025	6.4	2.4

National Demand

Peaks and troughs

		FORECAST (Wed 05 Mar)		OUTTURN	
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)	National Demand (GW)	Dist. wind (GW)
05 Mar 2025	Evening Peak	36.8	3.5	36.5	3.5
06 Mar 2025	Overnight Min	22.1	3.1	22.3	2.5
06 Mar 2025	Evening Peak	36.0	3.8	35.7	3.4
07 Mar 2025	Overnight Min	22.0	2.0	21.5	1.8
07 Mar 2025	Evening Peak	36.4	1.2	35.7	1.3
08 Mar 2025	Overnight Min	21.1	1.7	20.5	1.4
08 Mar 2025	Evening Peak	32.4	1.9	32.3	1.9
09 Mar 2025	Overnight Min	19.9	1.9	19.8	1.3
09 Mar 2025	Evening Peak	32.6	2.6	33.7	1.1
10 Mar 2025	Overnight Min	19.7	3.2	20.7	1.4
10 Mar 2025	Evening Peak	36.5	3.2	36.4	3.2
11 Mar 2025	Overnight Min	22.1	2.3	21.7	2.2
11 Mar 2025	Evening Peak	39.2	1.3	37.9	1.5

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

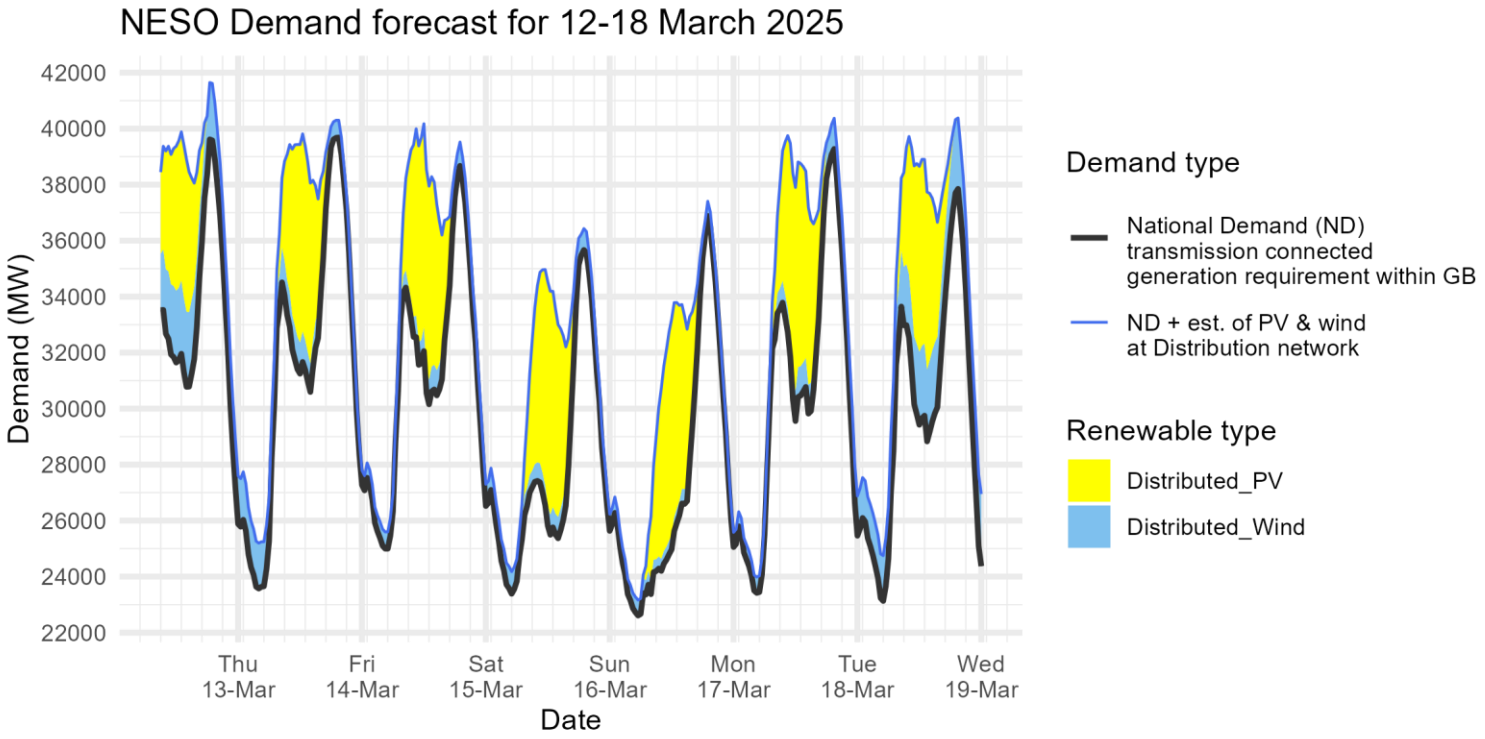
ND values do not include export on interconnectors or pumping or station load

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 NESO has no real time data.

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

Demand | Week Ahead

Slido code #OTF



National Demand

Peaks and troughs

Date	Forecasting Point	FORECAST (Wed 12 Mar) National Demand (GW)	FORECAST (Wed 12 Mar) Dist. wind (GW)
12 Mar 2025	Evening Peak	39.6	2.0
13 Mar 2025	Overnight Min	23.6	1.6
13 Mar 2025	Evening Peak	39.7	0.6
14 Mar 2025	Overnight Min	25.0	0.6
14 Mar 2025	Evening Peak	38.7	0.8
15 Mar 2025	Overnight Min	23.4	0.8
15 Mar 2025	Evening Peak	35.7	0.8
16 Mar 2025	Overnight Min	22.6	0.6
16 Mar 2025	Evening Peak	36.9	0.5
17 Mar 2025	Overnight Min	23.4	0.6
17 Mar 2025	Evening Peak	39.3	1.1
18 Mar 2025	Overnight Min	23.1	1.6
18 Mar 2025	Evening Peak	37.9	2.5

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 NESO has no real time data.

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

Operational Margins | Week Ahead

Slido code #OTF

How to interpret this information

This slide sets out our view of operational margins for the next week. We are providing this information to help market participants identify when tighter periods are more likely to occur such that they can plan to respond accordingly.

The table provides our current view on the operational surplus based on expected levels of generation, wind and peak demand. This is based on information available to NESO as of the day these slides are being published and is subject to change. It represents a view of what the market is currently intending to provide before we take any actions. The interconnector flows are equal to those in the Base case presented in the Winter Outlook.

The indicative surplus is a measure of how tight we expect margins to be and the likelihood of the NESO needing to use its operational tools.

For higher surplus values, margins are expected to be adequate and there is a low likelihood of the NESO needing to use its tools. In such cases, we may even experience exports to Europe on the interconnectors over the peak depending on market prices.

For lower (and potentially negative) surplus values, then this indicates operational margins could be tight and that there is a higher likelihood of the NESO needing to use its tools, such as interconnector trading and issuing margins notices. We expect there to be sufficient supply available to respond to these signals to meet demand.

Margins are adequate for the next week.

Day	Date	Notified Generation (MW)	Wind (MW)	IC Flows* (MW)	Peak demand (MW)	Indicative surplus (MW)
Thu	13/03/2025	41771	3520	5120	41030	5230
Fri	14/03/2025	41807	3610	5120	39740	6650
Sat	15/03/2025	41753	3860	5120	36760	10170
Sun	16/03/2025	41909	2810	5120	37660	8420
Mon	17/03/2025	43533	5550	5120	40370	9910
Tue	18/03/2025	43382	12310	5120	39590	15310
Wed	19/03/2025	43452	12200	5120	38610	16100

*Interconnector flow in line with the Winter Outlook Report Base Case but will ultimately flow to market price

Margins do not include NESO enhanced or emergency actions

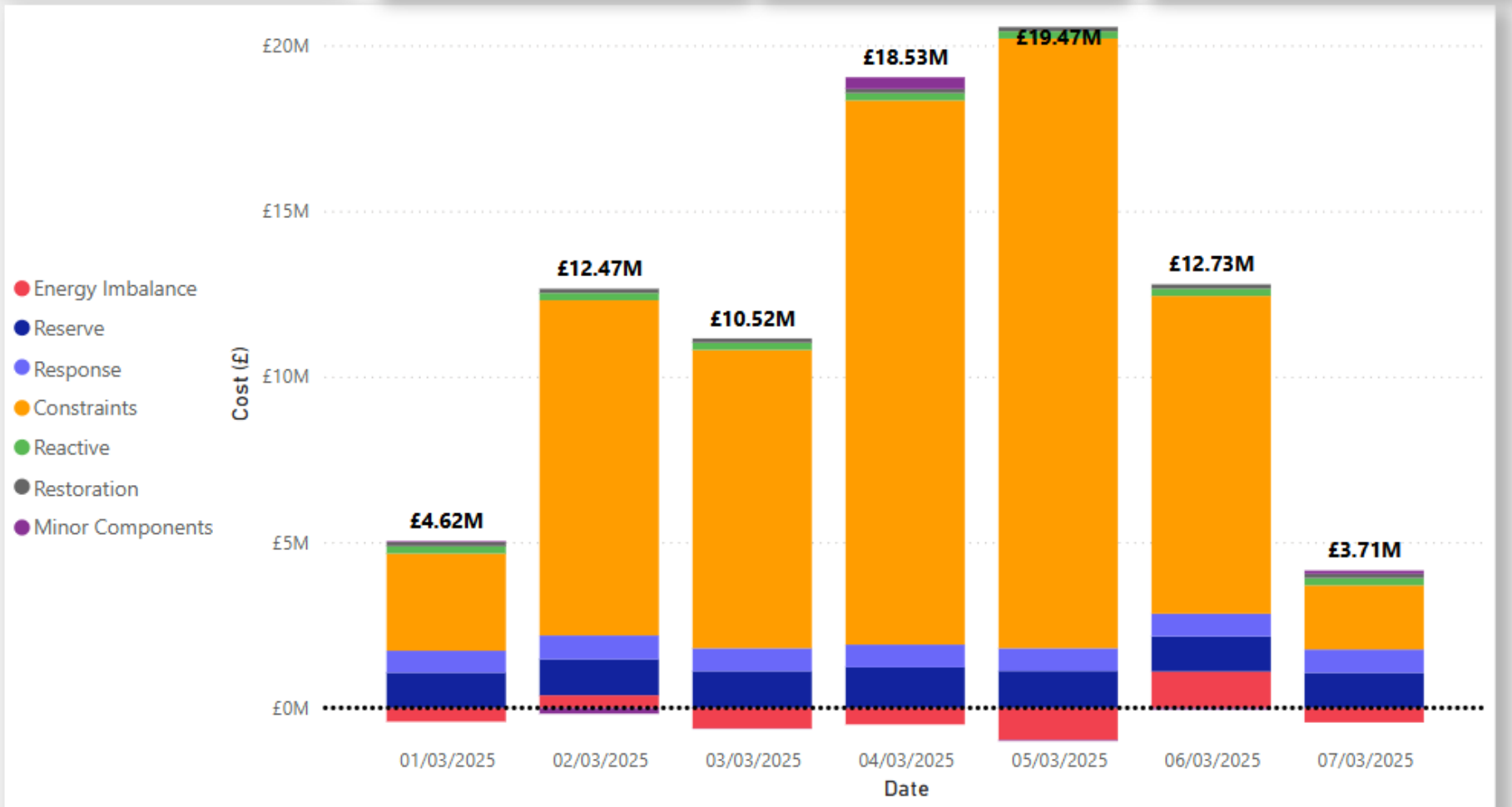
NESO National Energy System Operator

NESO Actions | Category Cost Breakdown

Slido code #OTF

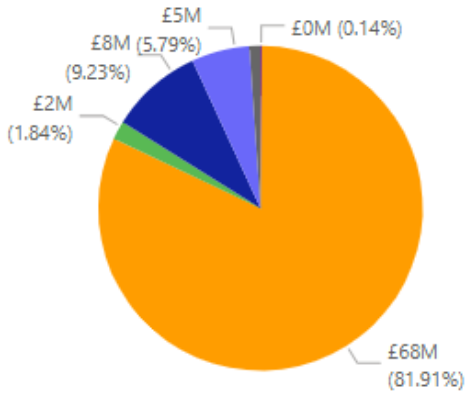
Date
01/03/2025 07/03/2025

Weekly Total Costs (£)	Last Week Total Costs (£)	Past 30-Day Average Costs (£)
£82.0M	£75.0M	£9.6M



Date	Total Outturn Cost
01/03/2025	£4,619,306
02/03/2025	£12,474,578
03/03/2025	£10,517,760
04/03/2025	£18,534,916
05/03/2025	£19,465,347
06/03/2025	£12,730,400
07/03/2025	£3,707,431
Total	£82,049,737

Weekly Cost (£) and Share (%)

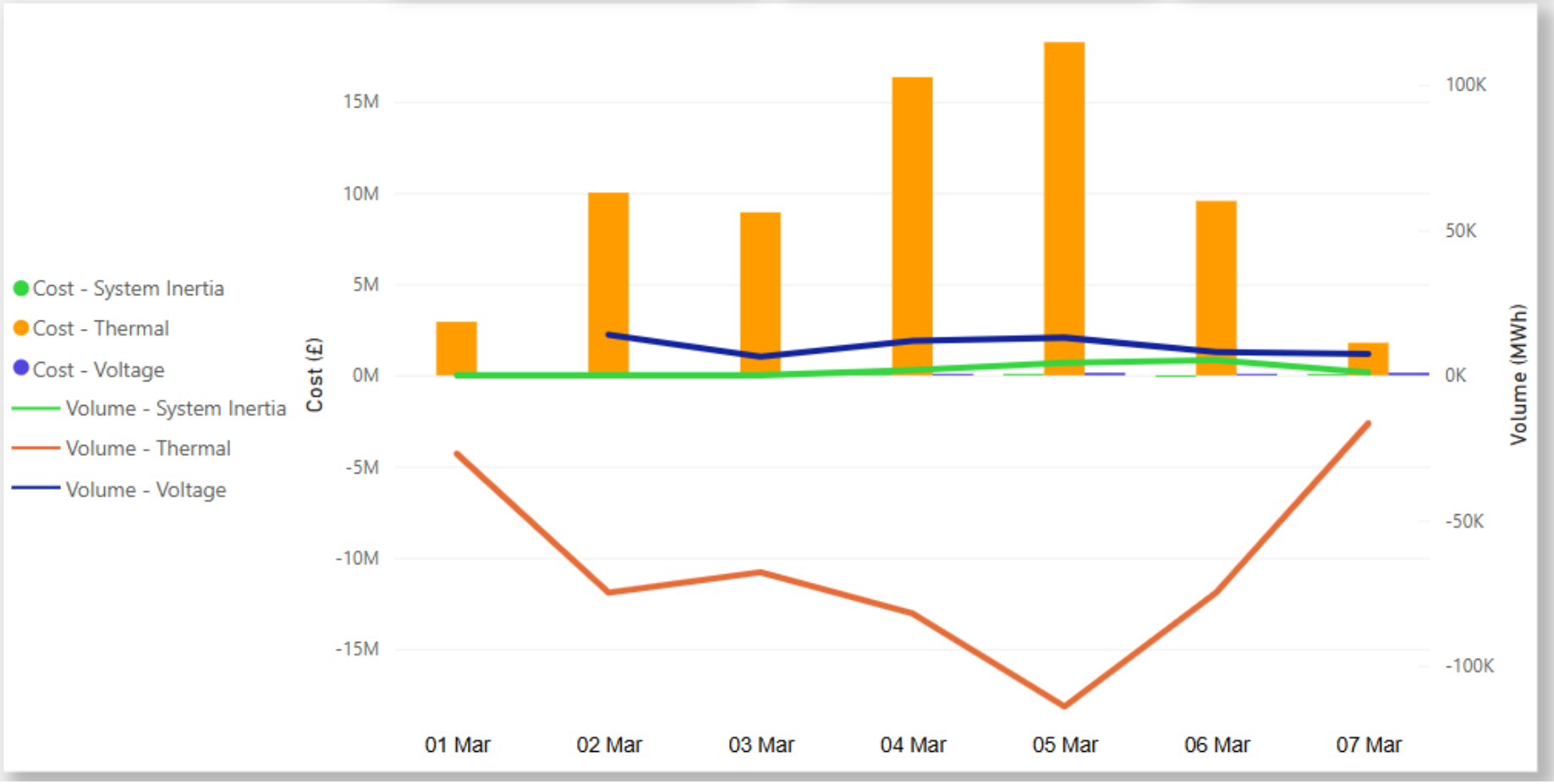


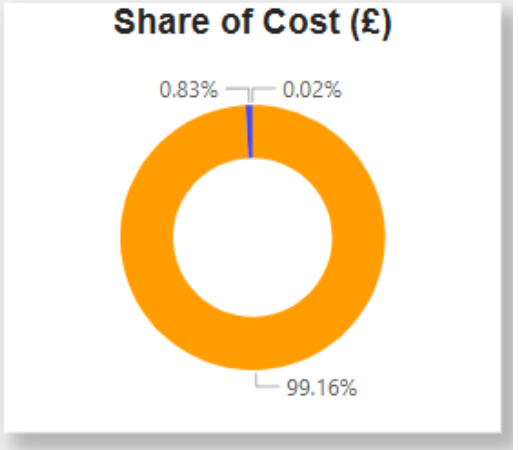
NESO Actions | Constraint Cost Breakdown

Date

01/03/2025 07/03/2025

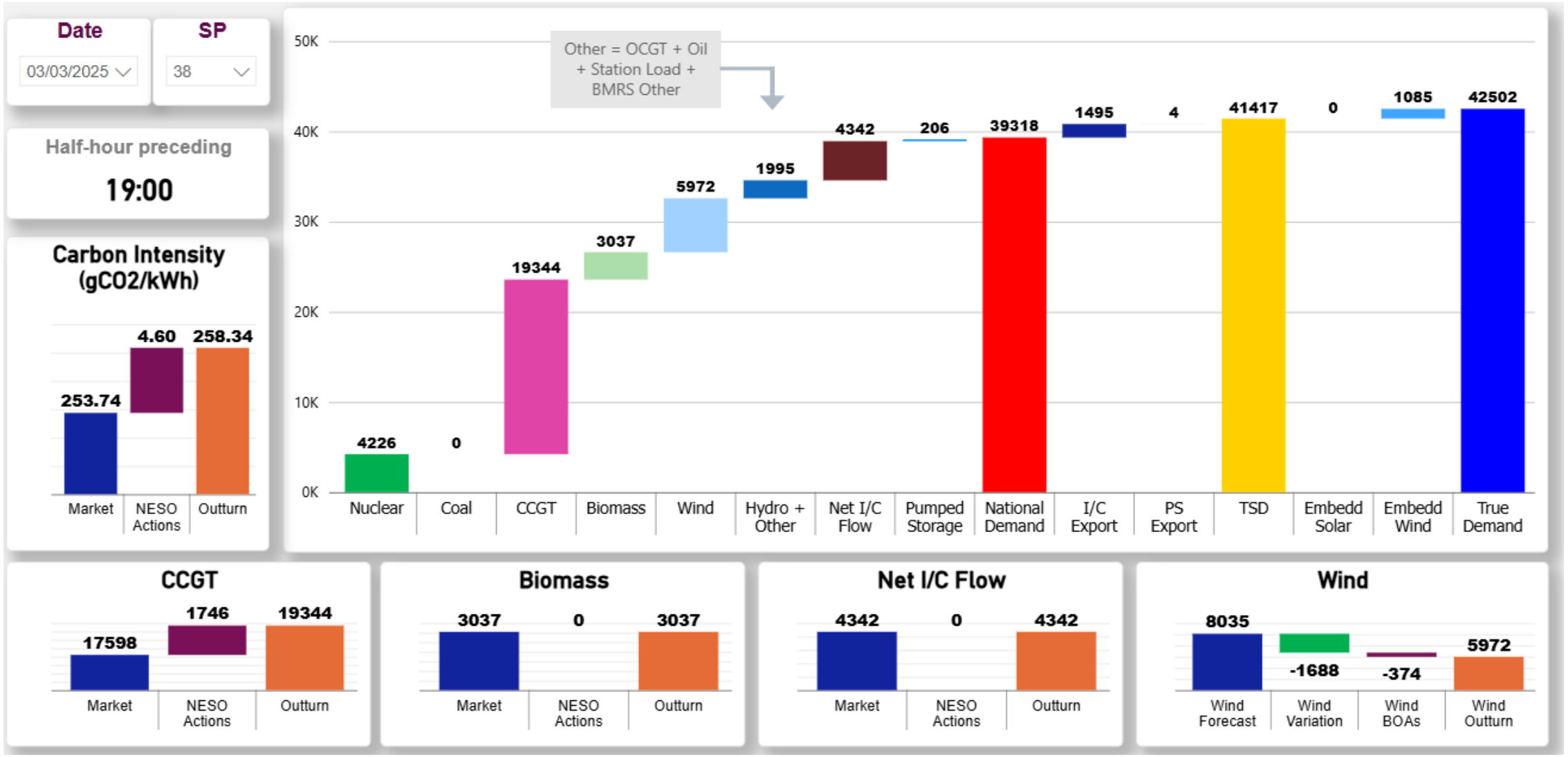
Thermal Constraints		Voltage Constraints		System Inertia	
Costs (£)	Vol (MWh)	Costs (£)	Vol (MWh)	Costs (£)	Vol (MWh)
67.8M	-457.0K	566.0K	60.6K	10.6K	12.3K





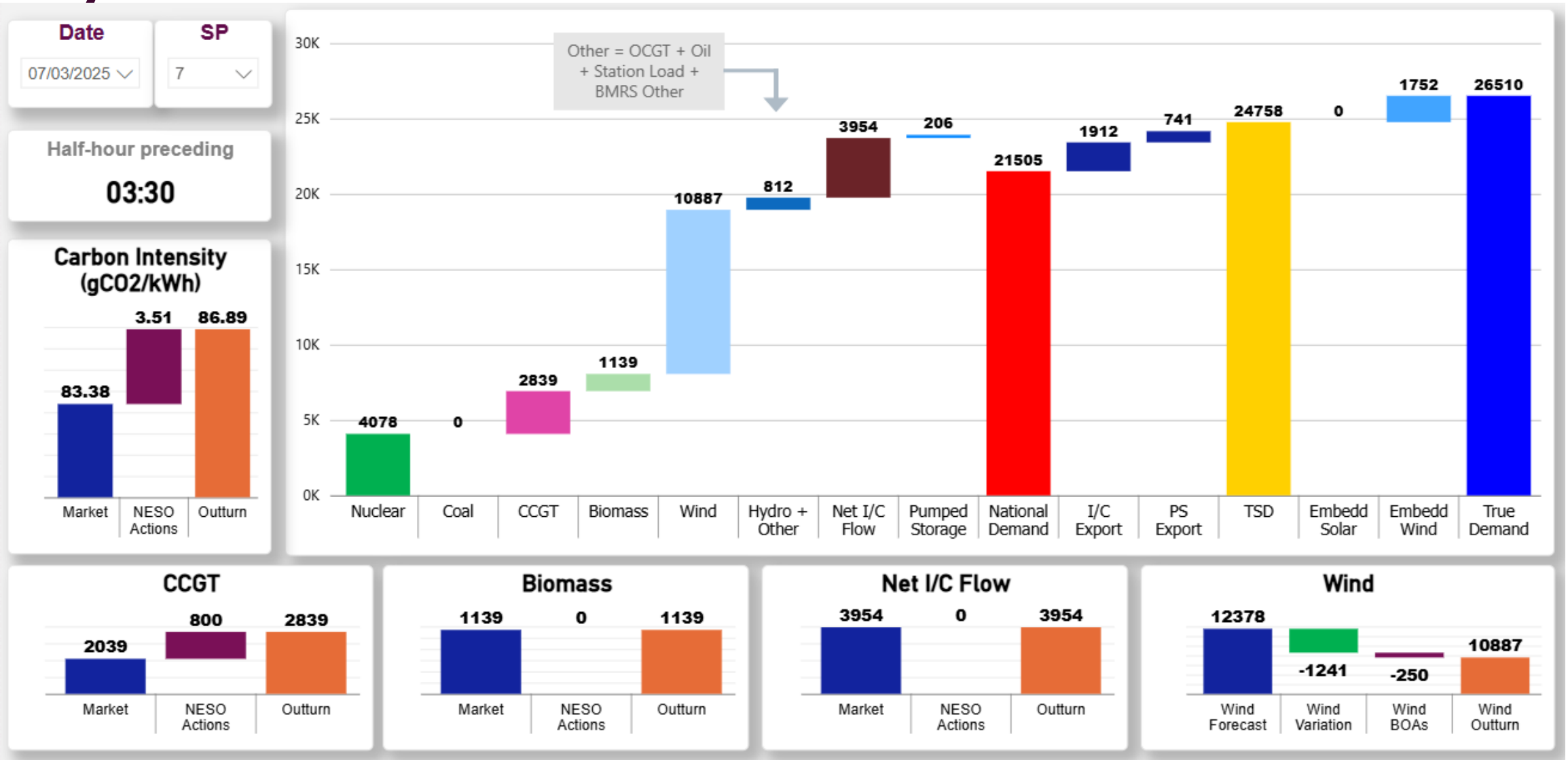
NESO Actions | Peak Demand – SP spend ~ £278k
Monday 3rd March

Slido code #OTF



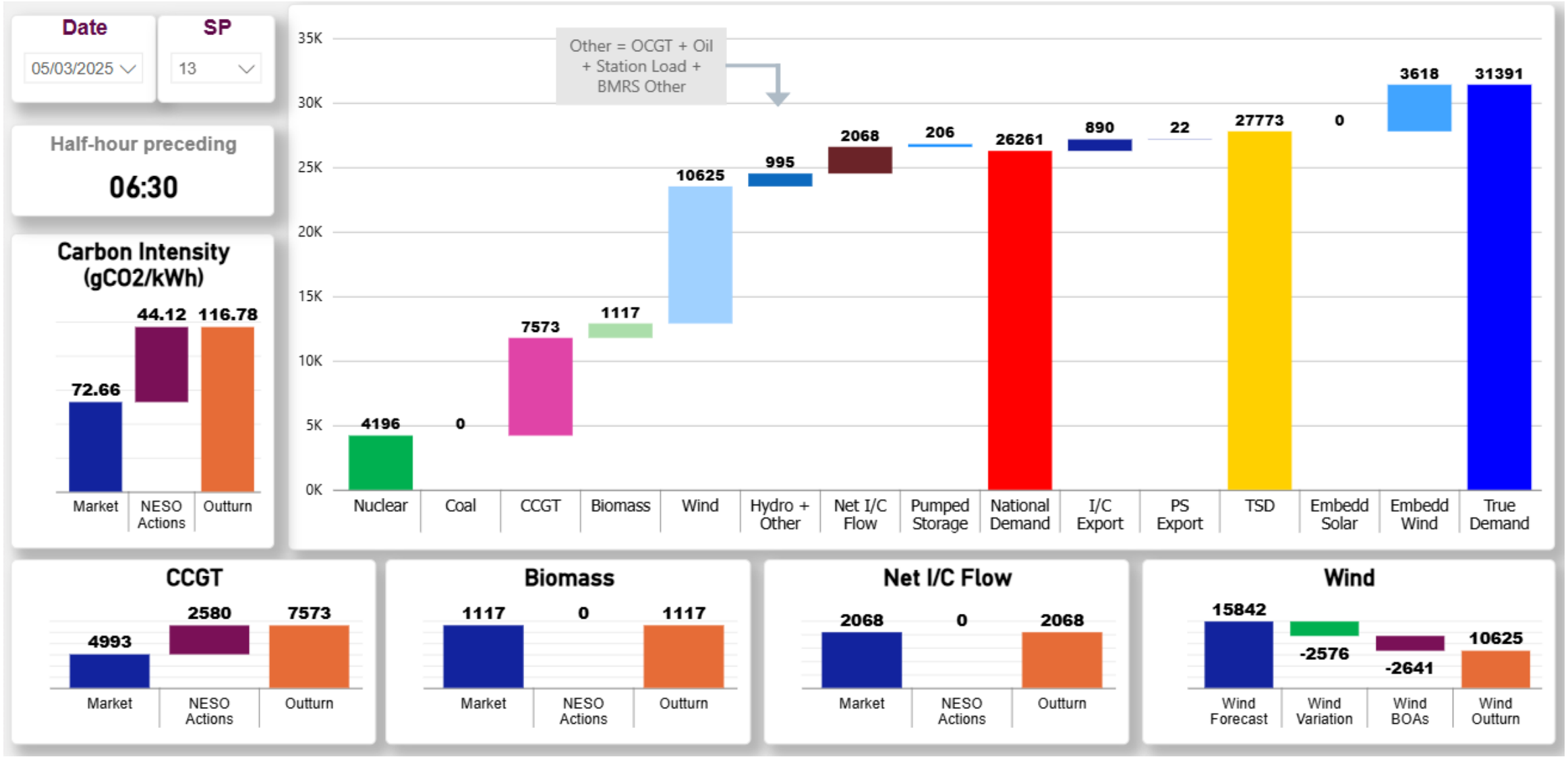
NESO Actions | Minimum Demand – SP spend ~ £84k
Friday 7th March

Slido code #OTF

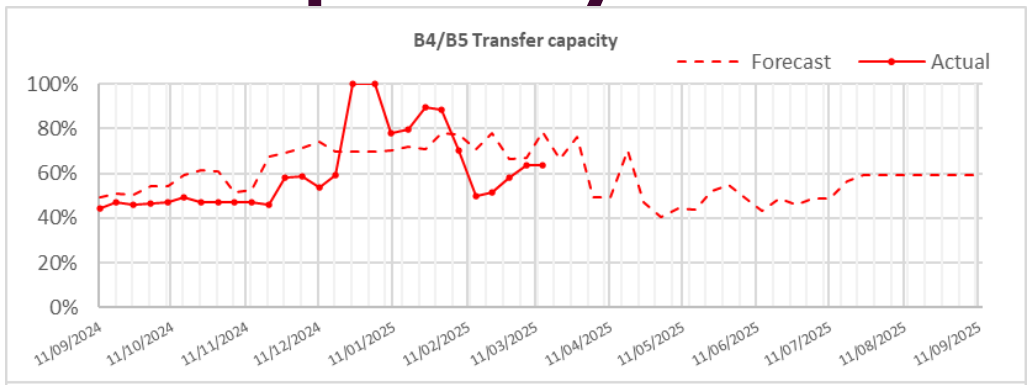


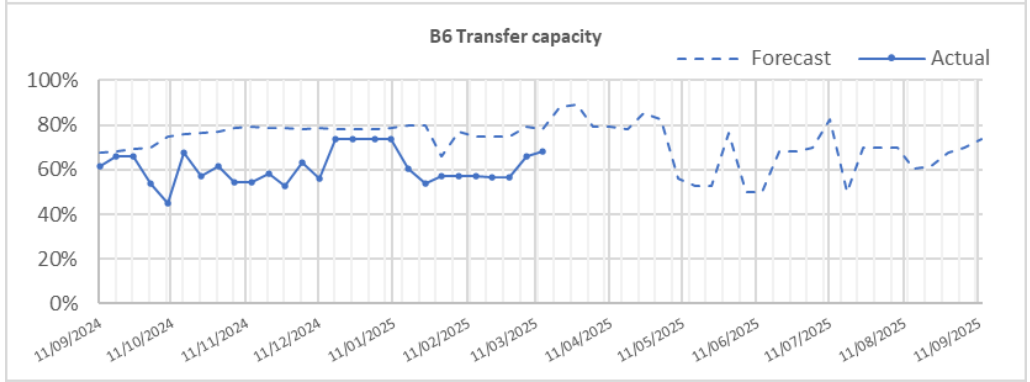
NESO Actions | – Highest SP spend ~ £603k
Wednesday 5th March

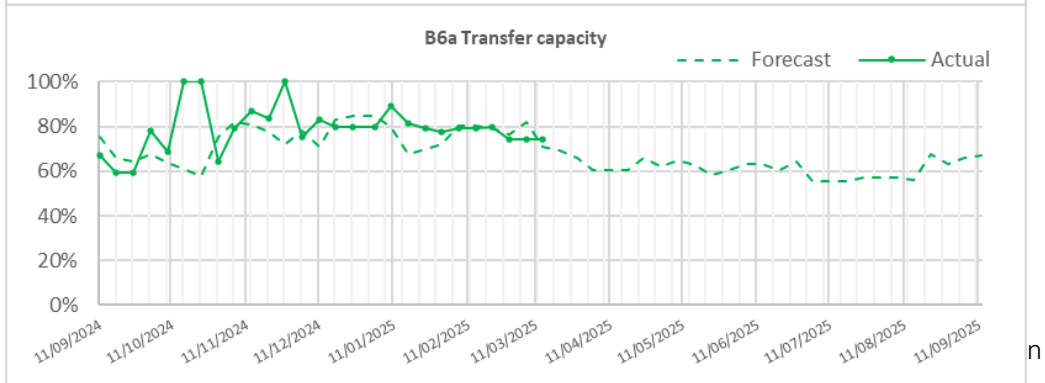
Slido code #OTF



Transparency | Network Congestion

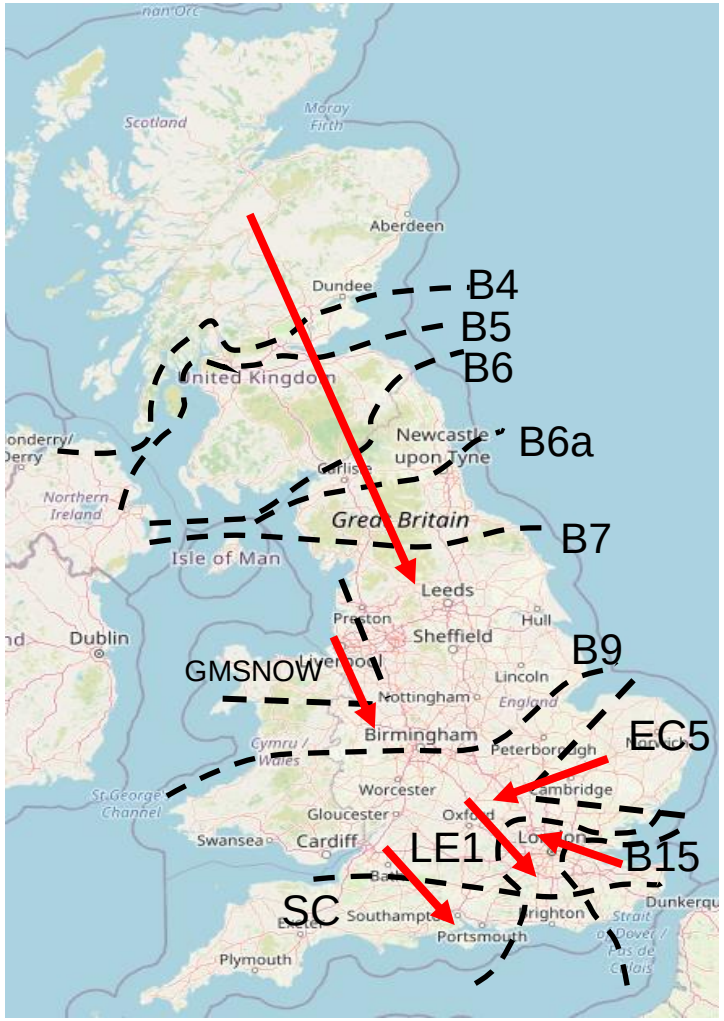






Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	64%
B6 (SCOTEX)	6800	68%
HARSPNBLY	8000	74%
B7 (SSHARN)	9850	75%
GMSNOW	5800	50%
FLOWSTH (B9)	12700	75%
DRESHEX	9675	84%
EC5	5000	90%
LE1 (SEIMP)	8750	77%
B15 (ESTEX)	7500	90%
SC1	7300	75%

Slido code #OTF

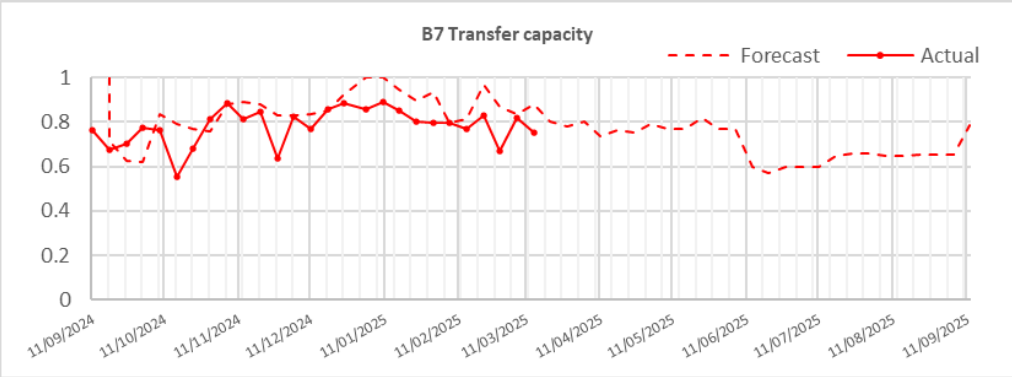


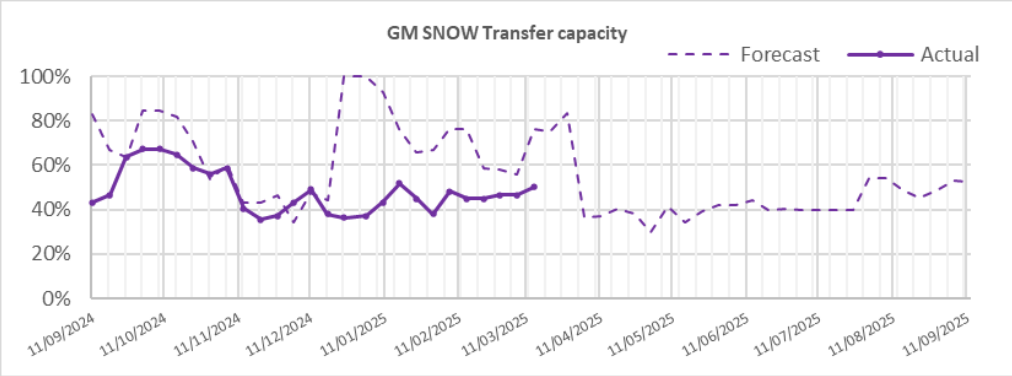
n the ESO Data Portal: Constraints Management

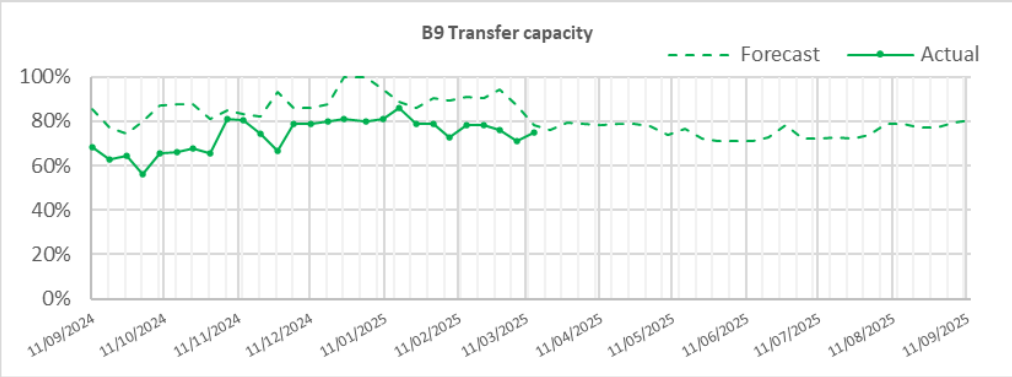
(The forecast and day ahead limits may vary due to changes in the outage plan. The plan is reviewed periodically throughout the year to ensure we are optimising system conditions, whilst managing any necessary outage plan changes)

NESO National Energy System Operator

Transparency | Network Congestion

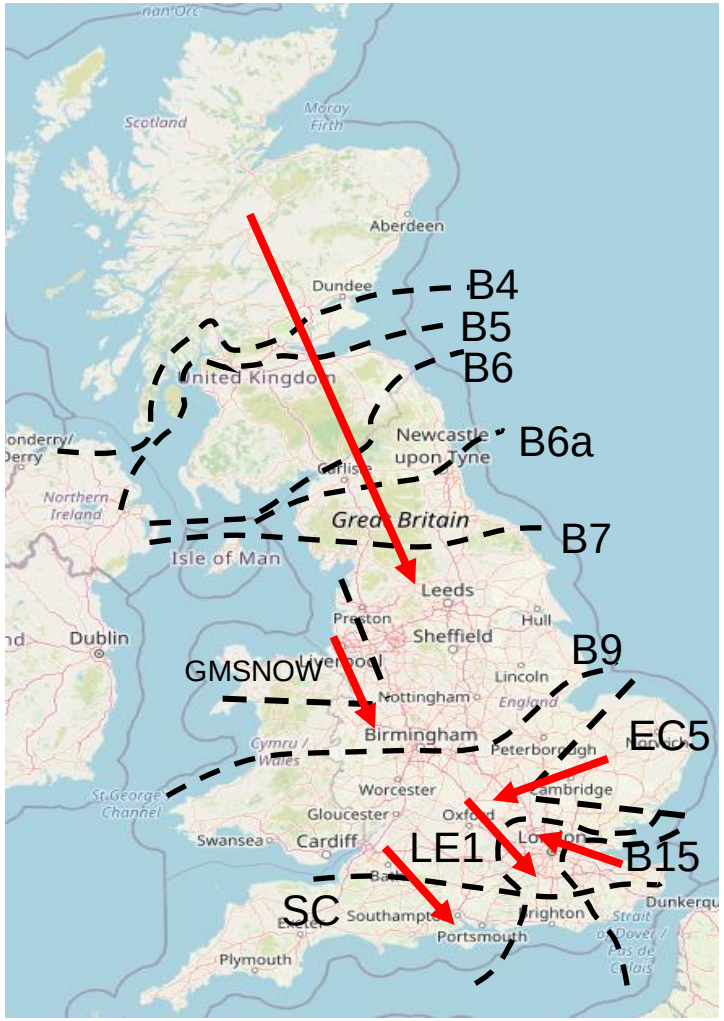






Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	64%
B6 (SCOTEX)	6800	68%
HARSPNBLY	8000	74%
B7 (SSHARN)	9850	75%
GMSNOW	5800	50%
FLOWSTH (B9)	12700	75%
DRESHEX	9675	84%
EC5	5000	90%
LE1 (SEIMP)	8750	77%
B15 (ESTEX)	7500	90%
SC1	7300	75%

Slido code #OTF

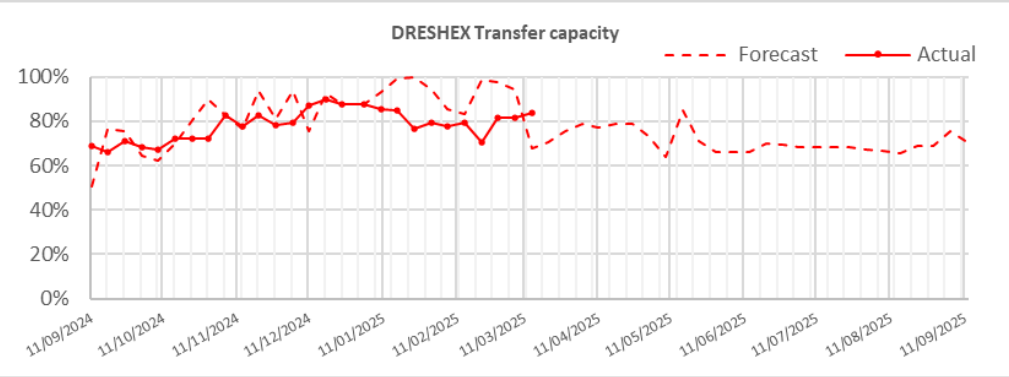


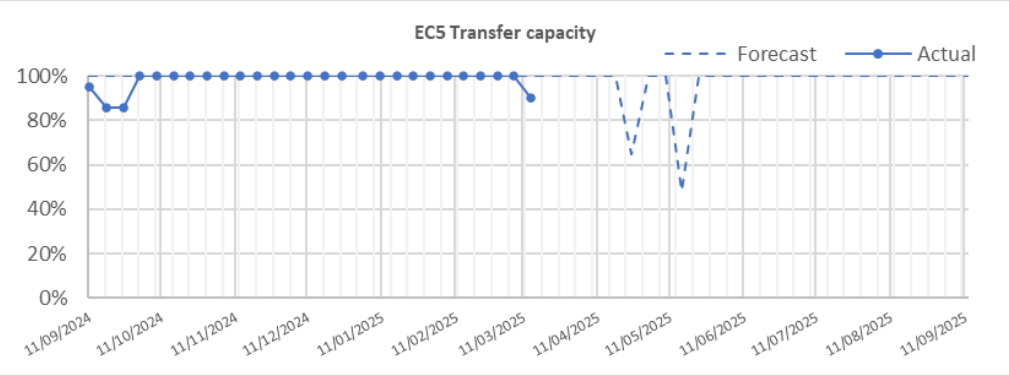
Data Portal: Constraints Management

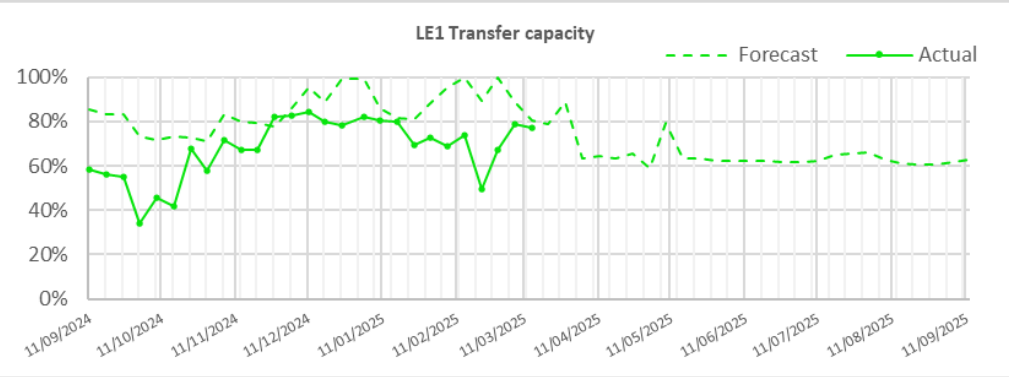
(The forecast and day ahead limits may vary due to changes in the outage plan. The plan is reviewed periodically throughout the year to ensure we are optimising system conditions, whilst managing any necessary outage plan changes)

NESO National Energy System Operator

Transparency | Network Congestion

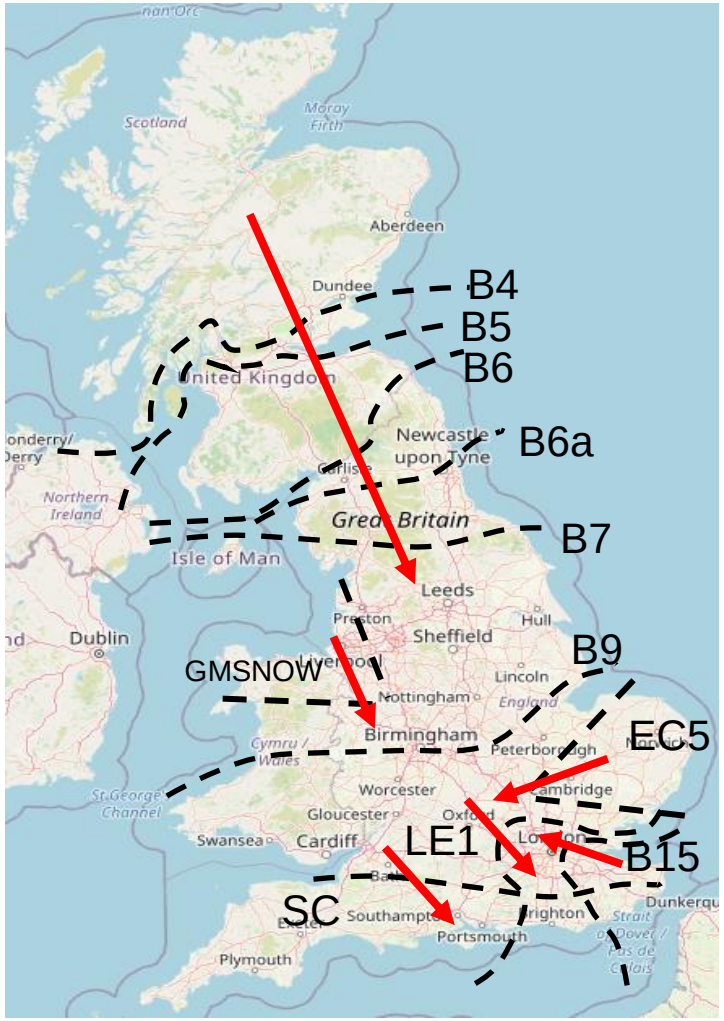






Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	64%
B6 (SCOTEX)	6800	68%
HARSPNBLY	8000	74%
B7 (SSHARN)	9850	75%
GMSNOW	5800	50%
FLOWSTH (B9)	12700	75%
DRESHEX	9675	84%
EC5	5000	90%
LE1 (SEIMP)	8750	77%
B15 (ESTEX)	7500	90%
SC1	7300	75%

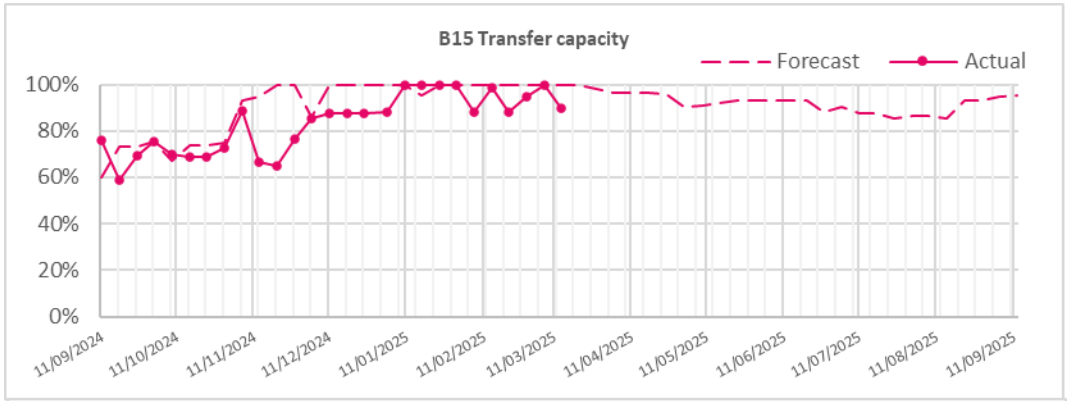
Slido code #OTF

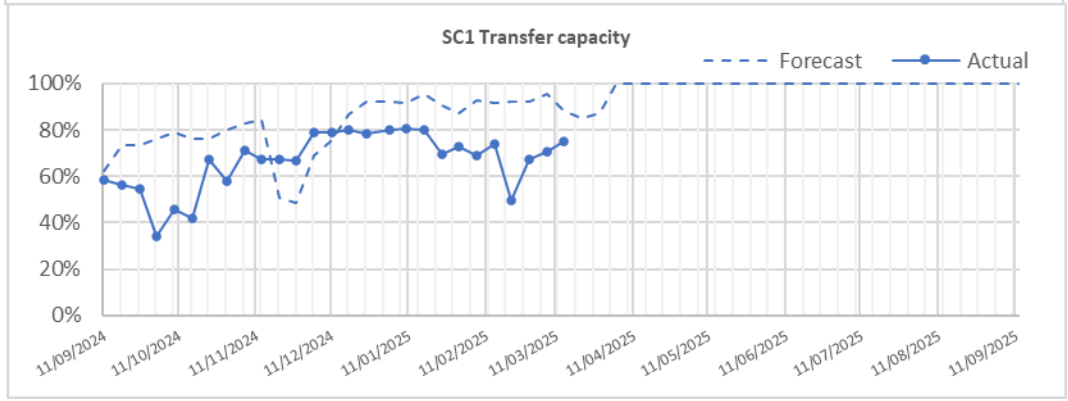


n the ESO Data Portal: Constraints Management

(The forecast and day ahead limits may vary due to changes in the outage plan. The plan is reviewed periodically throughout the year to ensure we are optimising system conditions, whilst managing any necessary outage plan changes)

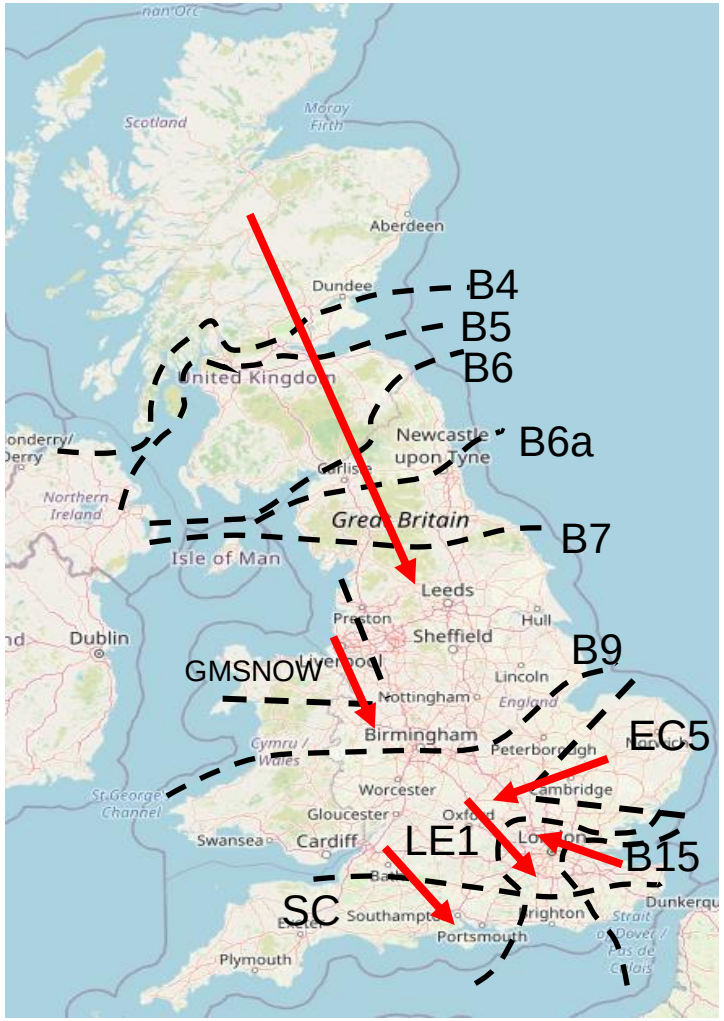
Transparency | Network Congestion





Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	64%
B6 (SCOTEX)	6800	68%
HARSPNBLY	8000	74%
B7 (SSHARN)	9850	75%
GMSNOW	5800	50%
FLOWSTH (B9)	12700	75%
DRESHEX	9675	84%
EC5	5000	90%
LE1 (SEIMP)	8750	77%
B15 (ESTEX)	7500	90%
SC1	7300	75%

Slido code #OTF



Day ahead flows and limits, and the 24-month constraint limit forecast are published on the ESO Data Portal: [Constraints Management]

(The forecast and day ahead limits may vary due to changes in the outage plan. The plan is reviewed periodically throughout the year to ensure we are optimising system conditions, whilst managing any necessary outage plan changes)

NESO National Energy System Operator

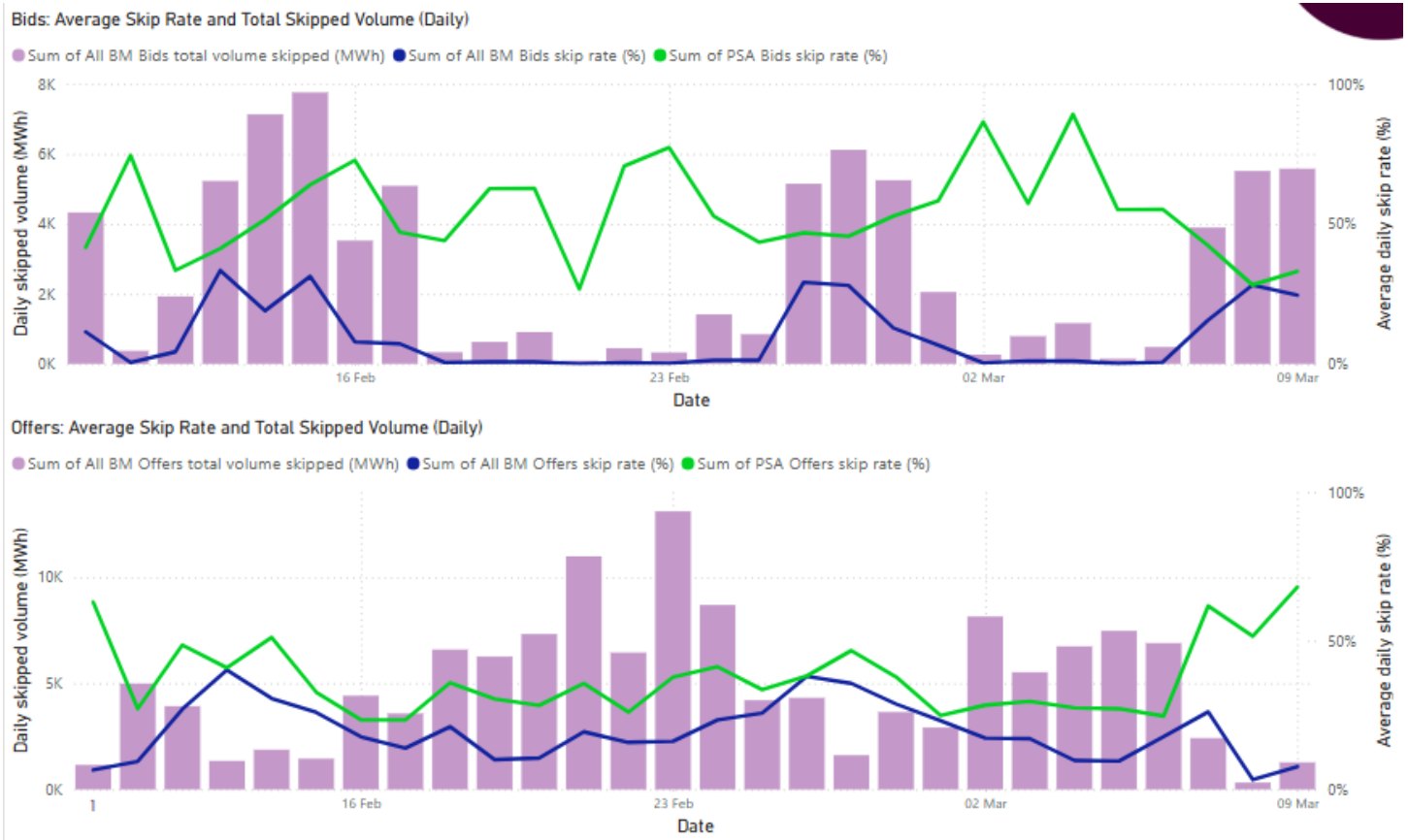
Skip Rates

Slido code #OTF

We are now sharing the summary skip rate data on a rolling 4-week basis. We welcome your comments on if you find this valuable and feedback on how we present this data.

Weekly Average w/e	Offers - All BM	Offers - PSA	Bids - All BM	Bids - PSA
16/02	15%	33%	11%	50%
23/02	15%	32%	1%	51%
02/03	24%	34%	6%	49%
09/03	12%	29%	4%	36%

Monthly Average	Offers - All BM	Offers - PSA	Bids - All BM	Bids - PSA
January	18%	34%	11%	53%
February	15%	33%	5%	49%
March (MTD)	13%	29%	4%	37%



Note: due to size issues, both 'In Merit' datasets now have a separate file for each month. Based on feedback we intend to maintain this method of publishing the data. We endeavour to publish by 5pm each day.

Webinar recording and slides from 27th Feb are now available.

Skip rate data and more info on skip rates and battery storage including methodology.

PSA: Post System Action

NESO National Energy System Operator

Previously Asked Questions

Slido code #OTF

Q: (26.02.25) In terms of weekly balancing costs. The cost is often compared to the previous week. It could be more beneficial to compare with the corresponding week or month in the previous year in terms of the trend

A: Thank you for this feedback.

From March 2025, we will be presenting a more in-depth view of monthly balancing costs, and this will include a comparison to the previous year.

The February Balancing costs deep dive is scheduled for 26 March.

Q: (26.02.25) Europe-most IC between markets are AC & re-despatch per TSO used exchange to minimise constraint across TSOs, based on pan-EU planning. Equiv. process= net GB-EU flow a'priori optimised across IC to avoid constraint, rather than create problem to solve in new trades? HVDC gives more control flex.

A: Thank you for your comment.

NESO
National Energy System Operator

Previously Asked Questions

Slido code #OTF

Q: (26.02.2025) What was the level of flexible line ratings used during the periods of high constraints and low network availability over the last weeks? What is being done to accelerate network availability?

Q: (26.02.2025) Please could you address the flexible line rating question next time. This refers to utilising flexible boundary capacities based on temperature/ wind cooling. Thanks

A: This is not currently information that we share. To request data that is not currently shared via the Open Data Portal or our public website, please submit a request through the Data Request Form.

For more information: Data Sharing Approach | National Energy System Operator

There are enhanced ratings available on transmission lines and equipment but depending on the situation they may not always be beneficial. Constraints can be limited by thermal, voltage and stability restrictions, and enhanced ratings are only beneficial when thermal restrictions apply. The Network Access Planning team assesses the need for circuit enhancements and request them from the transmission owners when they are forecast to be beneficial.

Parts of the network can be unavailable for maintenance, faults and defect repairs, customer connection works and reinforcement. NESO work closely with the transmission network owners to prioritise this work and optimise the availability of the network.

Previously Asked Questions

Slido code #OTF

Q: (05.02.25) Why does interconnector report https://www.ofgem.gov.uk/sites/default/files/2024-11/NESO_System_Impact_Report.pdf (p41 last paragraph) imply wind PV and batteries can not provide frequency response and reactive power services? Should this state that grid forming (including BESS) can provide inertia?

A: The statement on page 41 (see below) was made within the specific context of this November 2024 report, it does not reflect the current operational situation which does now include asynchronous generation with grid forming capability as part of the GB transmission network.

The report referenced is the "NESO System Impact Assessment Report: Cap and Floor Window 3 and OHA Pilot Scheme Needs Case Assessment: post-consultation analysis ". It details the analysis undertaken to apply the needs case assessment framework for Cap and Floor application window 3 and the Offshore Hybrid Asset pilot scheme. For more explanation follow the link to the report in the question above.

The question refers to section 5. Frequency Response where the final paragraph on page 41 says:

- "Currently most asynchronous generation such as renewables, batteries and interconnectors use power electronic convertors which are insensitive to changes in system voltage, frequency and phase: these are known as grid following. Interconnectors and OHAs that are equipped with voltage source convertors (VSC) have the technical potential to provide grid forming services, such as voltage regulation and frequency response."

Questions on TLM/TLF

Slido code #OTF

Q: (Slido 05.03.25) 2025/26 TLFs on the Elexon portal present an annual change up to ~9% for Scotland. We would welcome additional transparency around what has driving the changes as currently Elexon only publishes TLM/TLF values for the upcoming year, but no forward-looking forecast is available.

Q: (Advanced 05.03.2025) SPR are keen to highlight the Elexon publication 2025/26 TLFs on the Elexon portal, which on an annual basis, showed some zones with changes up to c. 9%.

Elexon is responsible for publishing TLM/TLF values, but they only provide values for the upcoming year. Currently, there is no publicly available forward-looking forecast for the industry.

We believe industry would benefit from Elexon providing additional guidance to what is behind the changes observed in the published TLFs and forward looking forecast (similar to TNUoS).

Keen to ensure industry are aware of these changes and the impact with support from NESO

A: We appreciate that you are keen to bring this to the attention of colleagues across industry, however this is not within the scope of the OTF. We suggest you raise this directly with Elexon and consider whether a modification to the Balancing and Settlements Code should be proposed.

SPR – Scottish Power Renewables TLF – Transmission Loss Factors TLM – Transmission Loss Multipliers

Advance Questions

Slido code #OTF

Q: (28.02.2025) NESO previously stated that there was no appetite to procure any negative BR until later in the year. As we move further into 2025, when can we expect NESO to address this topic again? Will the market be notified beforehand? Thanks.

A: In November 2024 we communicated that we saw no consumer value in pricing Negative Balancing Reserve (NBR) at a non-zero buy price over Winter 24/25. This was due to our expectation that there would be sufficient downward flexible capacity available at zero cost to secure in the BM to meet our Negative reserve requirements.

We do not anticipate an operability need to procure NBR via the Day Ahead market over Summer 2025 and therefore would only seek to buy volume if it was cost-efficient against the cost of creating downwards flexibility closer to real time via trading or BM activity. On most days and times, the cost of creating downwards flexibility is £0. However, we continue to model system conditions and can set a non-zero priced NBR requirement in the daily auction if we anticipate a potential cost saving for the end consumer.

We publish volume forecasts for NBR on our data portal and this has been set at our typical Negative reserve requirement of 1450MW since December 2024.

If we see conditions where we believe firm procurement of NBR will provide value, we will notify the market via the usual channels of OTF, data portal service notifications dataset and newsletter or direct email dependent on timings.

NESO
National Energy System Operator

Advance Questions

Slido code #OTF

Q: (06.03.2025) Can you please publish the IONs and FONs NESO has issued.

A: To request data that is not currently shared via the Open Data Portal or our public website, please submit a request through the Data Request Form.

For more information: Data Sharing Approach | National Energy System Operator

ION – Interim Operational Notification
FON – Final Operational Notification
These are key stages in the Connections Compliance process, more information: Compliance Process | National Energy System Operator

Outstanding Questions

Slido code #OTF

Q: (29.01.2025) NESO only send IPs to the BMU – this is a limitation of EDL - was this not meant to be resolved in the EBS1 2010 system refresh parties paid for?

Reminder about answering questions at the NESO OTF

Slido code #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.
- **The OTF is not the place to challenge the actions of individual parties** (other than the NESO), and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketreporting@nationalenergyso.com
- **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.
- **Slido will remain open until 12:00**, 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.neso.energy/what-we-do/systems-operations/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 NESO 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

NESO National Energy System Operator

slido

Audience Q&A

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

Appendix

Purpose and scope of the NESO Operational Transparency Forum

Slido code #OTF

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 NESO 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
NESO operational approach & challenges
NESO 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 NESO Control Room actions & decision making
Activities & operations of particular market participants
NESO policy & strategic decision making
Formal consultations e.g.: Code Changes, Business Planning, Market development

NESO National Energy System Operator

Managing questions at the NESO Operational Transparency Forum

Slido code #OTF

- OTF participants can ask questions in the following ways:
  - Live via Slido code #OTF
  - In advance (before 12:00 on Monday) at https://forms.office.com/r/k0AEfKnai3
  - At any time to box.nc.customer@nationalenergyso.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 | NESO
- **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 NESO 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.

NESO National Energy System Operator

Skip Rates – 'In Merit' datasets

We recognise that these datasets aren't as intuitive as they could be – specifically the column headings. Please be reassured that we are looking at ways to improve this - we will update the documentation to include this information and will also discuss the datasets in more detail at the webinar on 27th February.

We will use 'accepted' and 'instructed' differently in this context, even though they are normally the same.

These datasets show the units that should have been instructed if decisions were solely based on price, rather than all units that were instructed. Therefore this dataset does not match the total accepted volume datasets in Elexon.

In Merit Volume = Accepted Volume + Skipped Volume

In Merit Volume
- This is the recreated in merit stack showing the lowest cost units that were available to meet the requirement, where the requirement is based on the volume of units that were actually instructed
- Therefore this is the volume that should have been accepted if decisions were solely based on price
- The sum of this column is the total instructed volume in the 5 minute period (subject to the relevant exclusions)

Accepted Volume
- This is the volume that was accepted in merit, as a subset of the 'In Merit Volume' column – i.e. how much volume was accepted in merit
- The sum of this column will be less than the sum of the 'In Merit Volume' column, unless there is no skipped volume
- Note: this column does not list all instructed units

Skipped Volume
- This is the volume that was skipped, as a subset of the 'In Merit Volume' column – i.e. of the volume that we should have instructed, how much was skipped

It's possible that the list of units increases, decreases, or stays the same between stages, but the total 'In Merit Volume' will always remain the same (or no volume is excluded) or decrease (due to exclusions).