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ESO Operational Transparency Forum
4 September 2024

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 ESO) and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketreporting@nationalgrideso.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@nationalgrideso.com

Stay up to date on our webpage: <https://www.nationalgrideso.com/OTF> (OTF Q&A is published with slidepacks)

Future deep dive / focus topics

Today

None

Future

Space Weather – September

Initial National Demand Outturn – TBC

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

18 September

Publication of pre recorded webinar

Including topics, such as:

- Introduction from Rebecca Beresford as new Director of Markets
- Becoming NESO (National Energy System Operator)
- Whole energy update
- Constraints Collaboration Project
- Latest on Product Development

To receive a link to the video please sign up to our distribution list [here](#)

25 September

10am – Live Q&A

To sign up to the webinar please [Register Here](#) or follow the QR code



We welcome any questions before the Live Q&A via **Slido** using **#MFSEP24**


Non-BM Reserve Implementation on Open Balancing Platform

If you missed our webinar on the proposed operation and interfaces for non-Balancing Mechanism providers of the new Quick and Slow Reserve services, you can watch a recording online.

 Watch here: bit.ly/3YJTTEX

Respond to our consultation by 10 September to help further develop the interface for these services.

 Fill in the feedback form: bit.ly/3YMRVE3

 Read more about our proposals in the events tab here: bit.ly/4dGlnzu

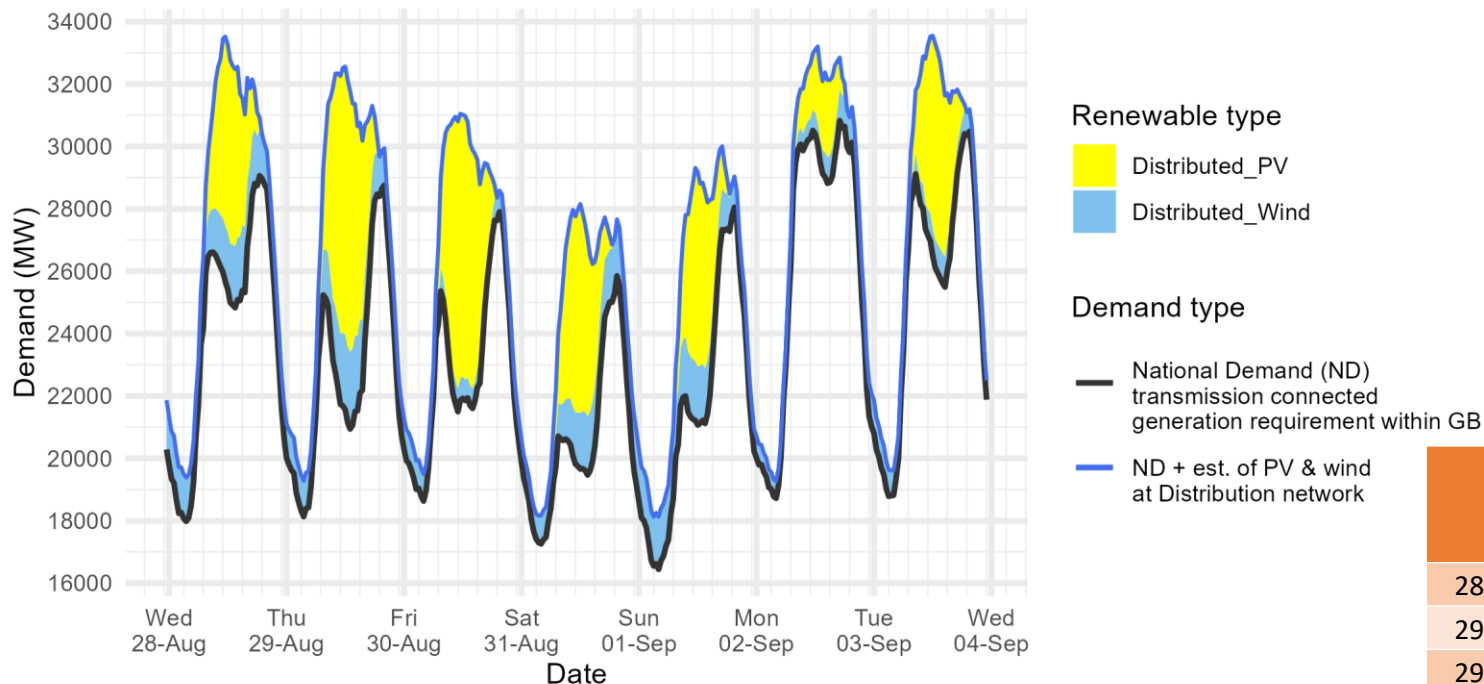
 Contact us with any questions you have here: box.futureofbalancingservices@nationalgrideso.com

Future Event Summary

Event	Date & Time	Link
Non-BM Reserve Implementation on Open Balancing Platform Consultation	10 th September 2024	Feedback form
2024 Revenue and Charging Forum – In person	17 th September 9:00-15:00	Register here
Markets Forum (publication of pre-recorded webinar)	18 th September 2024	Register here
2024 Revenue and Charging Forum – Online	24 th September 9:00-15:00	Register here
Markets Forum (Live Q&A)	25 th September 10:00	Register here

Demand | Last week demand out-turn

ESO National Demand outturn 28 August-03 September 2024



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.

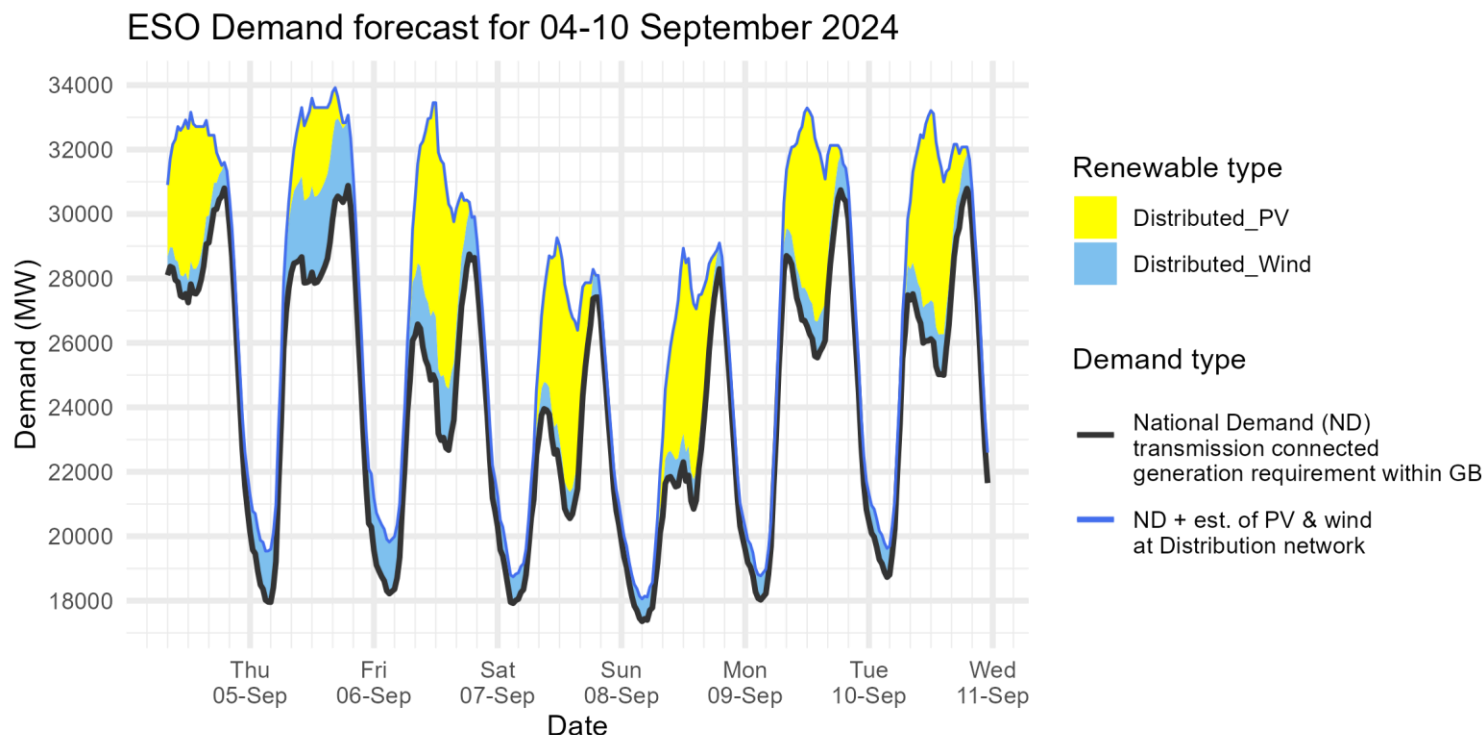
Historic out-turn data can be found on the [ESO Data Portal](#) in the following data sets: [Historic Demand Data](#) & [Demand Data Update](#)

Daily Maximums
Modelled distributed generation

Date	OUTTURN	
	Daily Max Dist. PV (GW)	Daily Max Dist. Wind (GW)
28 Aug 2024	6.1	2.1
29 Aug 2024	8.6	2.5
30 Aug 2024	8.6	1.0
31 Aug 2024	6.7	2.0
01 Sep 2024	6.2	1.9
02 Sep 2024	2.6	1.2
03 Sep 2024	6.3	1.1

Date	Forecasting Point	FORECAST (Wed 28 Aug)		OUTTURN	
		National Demand (GW)	Dist. wind (GW)	National Demand (GW)	Dist. wind (GW)
28 Aug 2024	Evening Peak	29.2	1.3	29.1	1.5
29 Aug 2024	Overnight Min	18.1	1.1	18.1	1.1
29 Aug 2024	Evening Peak	28.6	1.2	28.5	1.3
30 Aug 2024	Overnight Min	18.6	0.7	18.6	0.9
30 Aug 2024	Evening Peak	28.0	0.5	27.6	0.7
31 Aug 2024	Overnight Min	17.8	0.6	17.3	0.9
31 Aug 2024	Evening Peak	25.6	1.1	25.0	1.7
01 Sep 2024	Overnight Min	16.8	0.9	16.4	1.7
01 Sep 2024	Evening Peak	26.1	0.8	27.4	1.1
02 Sep 2024	Overnight Min	18.4	0.5	18.7	0.5
02 Sep 2024	Evening Peak	29.7	0.6	30.8	1.0
03 Sep 2024	Overnight Min	19.5	0.4	18.8	0.8
03 Sep 2024	Evening Peak	29.3	0.6	30.4	0.8

Demand | Week Ahead



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

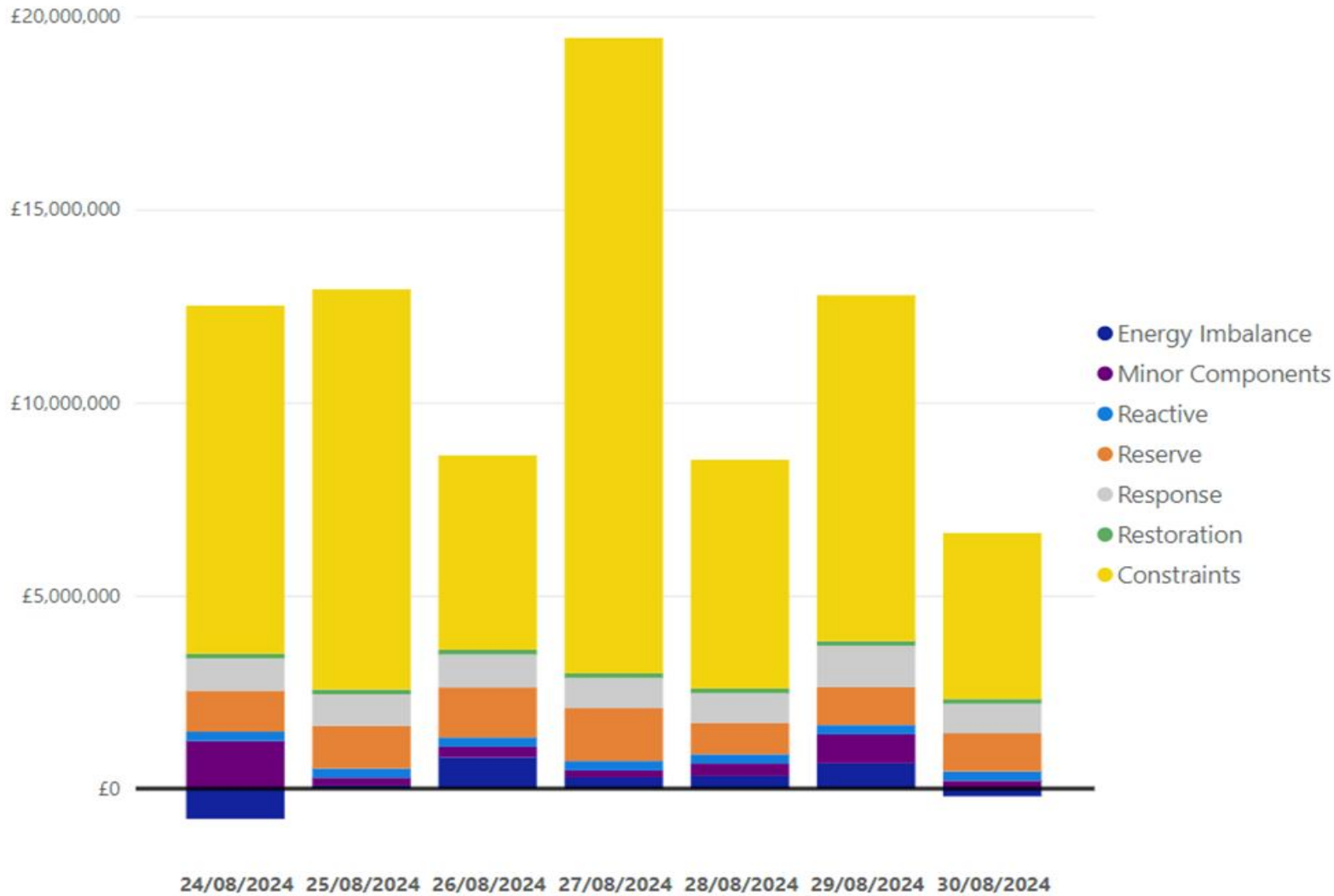
Blue line serves as a proxy for total GB customer demand. It includes demand supplied by the distributed wind and solar sources, but it does not include demand supplied by non-weather driven sources at the distributed network for which ESO has no real time data.

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

		FORECAST (Wed 04 Sep)	
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)
04 Sep 2024	Evening Peak	30.6	0.8
05 Sep 2024	Overnight Min	18.0	1.6
05 Sep 2024	Evening Peak	30.5	2.4
06 Sep 2024	Overnight Min	18.2	1.6
06 Sep 2024	Evening Peak	28.8	1.4
07 Sep 2024	Overnight Min	17.9	0.8
07 Sep 2024	Evening Peak	27.4	0.7
08 Sep 2024	Overnight Min	17.4	0.7
08 Sep 2024	Evening Peak	27.9	0.8
09 Sep 2024	Overnight Min	18.0	0.7
09 Sep 2024	Evening Peak	30.7	1.1
10 Sep 2024	Overnight Min	18.7	0.9
10 Sep 2024	Evening Peak	30.6	1.1

Owner: Joe Andrews

ESO Actions | Category Cost Breakdown



£80.44M

Weekly Total

£87.15M

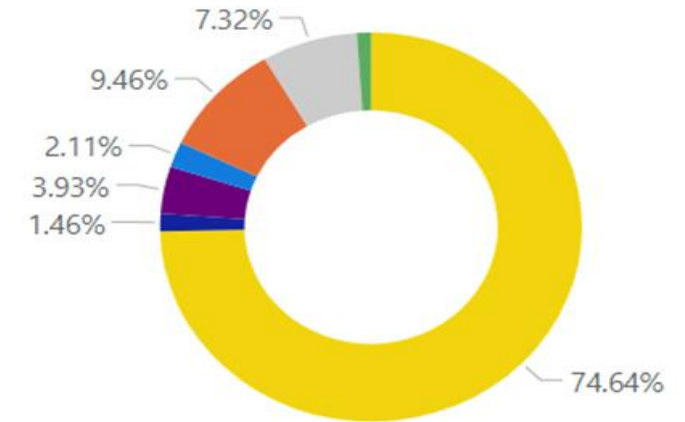
Previous Week Total

£9.76M

Past 30 Days Average

Date	Total (£)
24/08/2024	£11,725,972
25/08/2024	£12,930,852
26/08/2024	£8,628,060
27/08/2024	£19,440,045
28/08/2024	£8,516,394
29/08/2024	£12,776,365
30/08/2024	£6,419,465
Total	£80,437,152

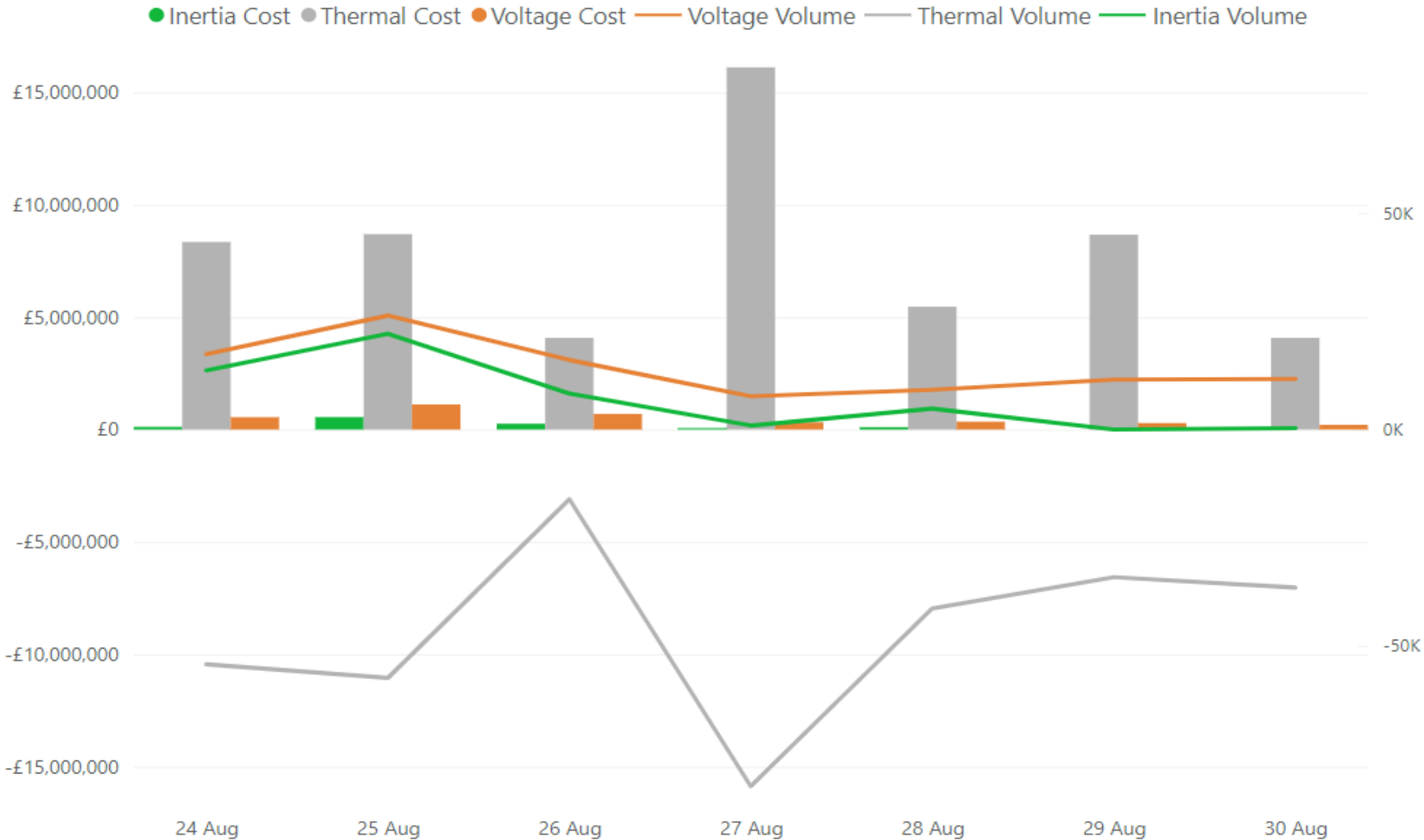
Share of Cost



Owner: Joe Andrews

ESO Actions | Constraint Cost Breakdown

24/08/2024 30/08/2024



£3.5M

Sum of Voltage Cost

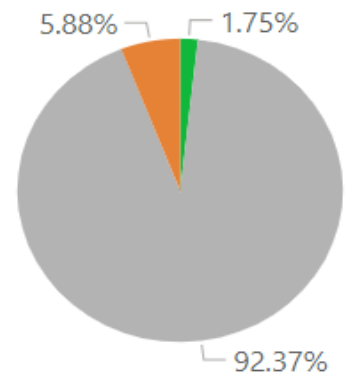
£1.0M

Sum of Inertia Cost

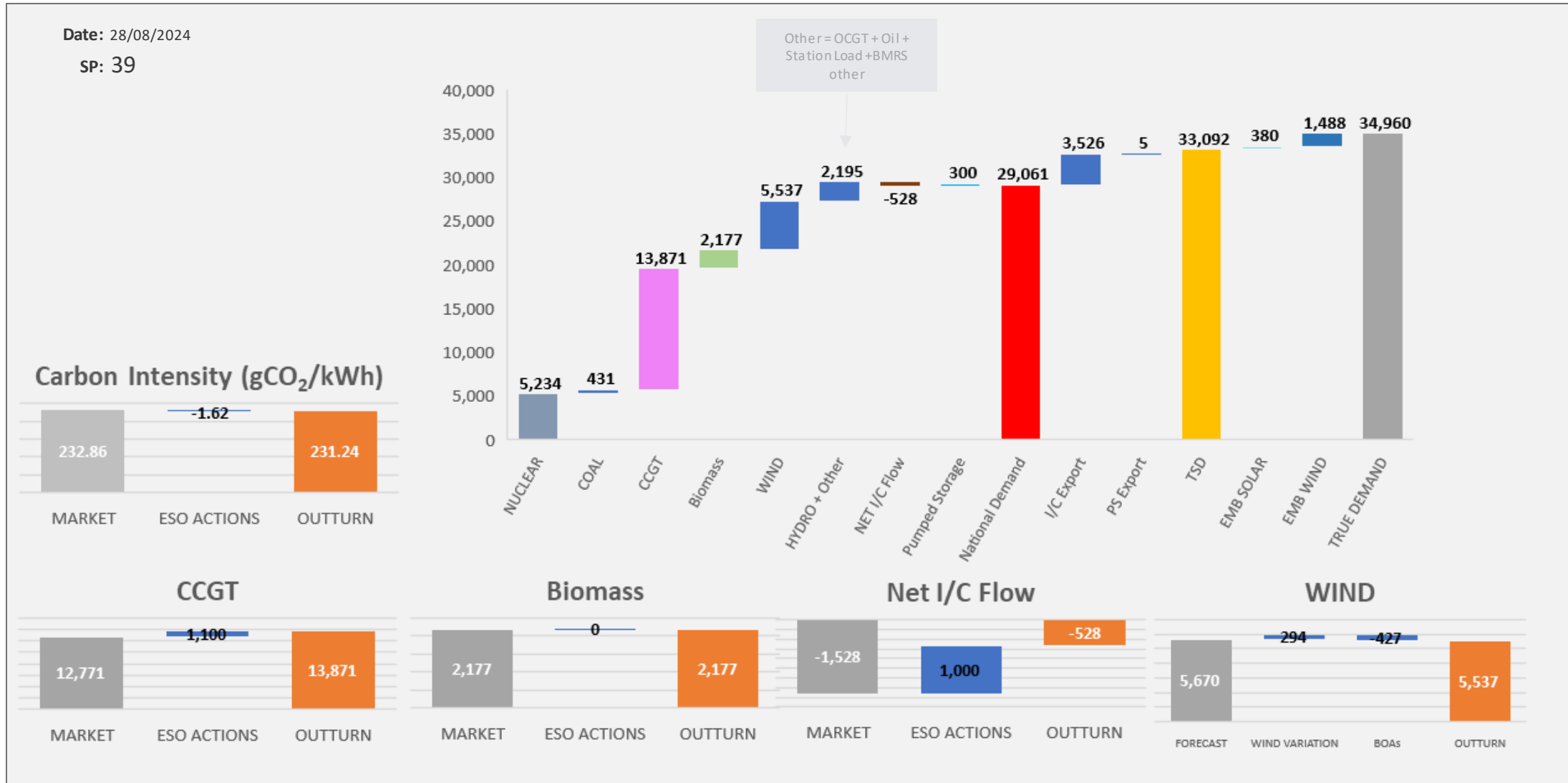
£55.5M

Sum of Thermal Cost

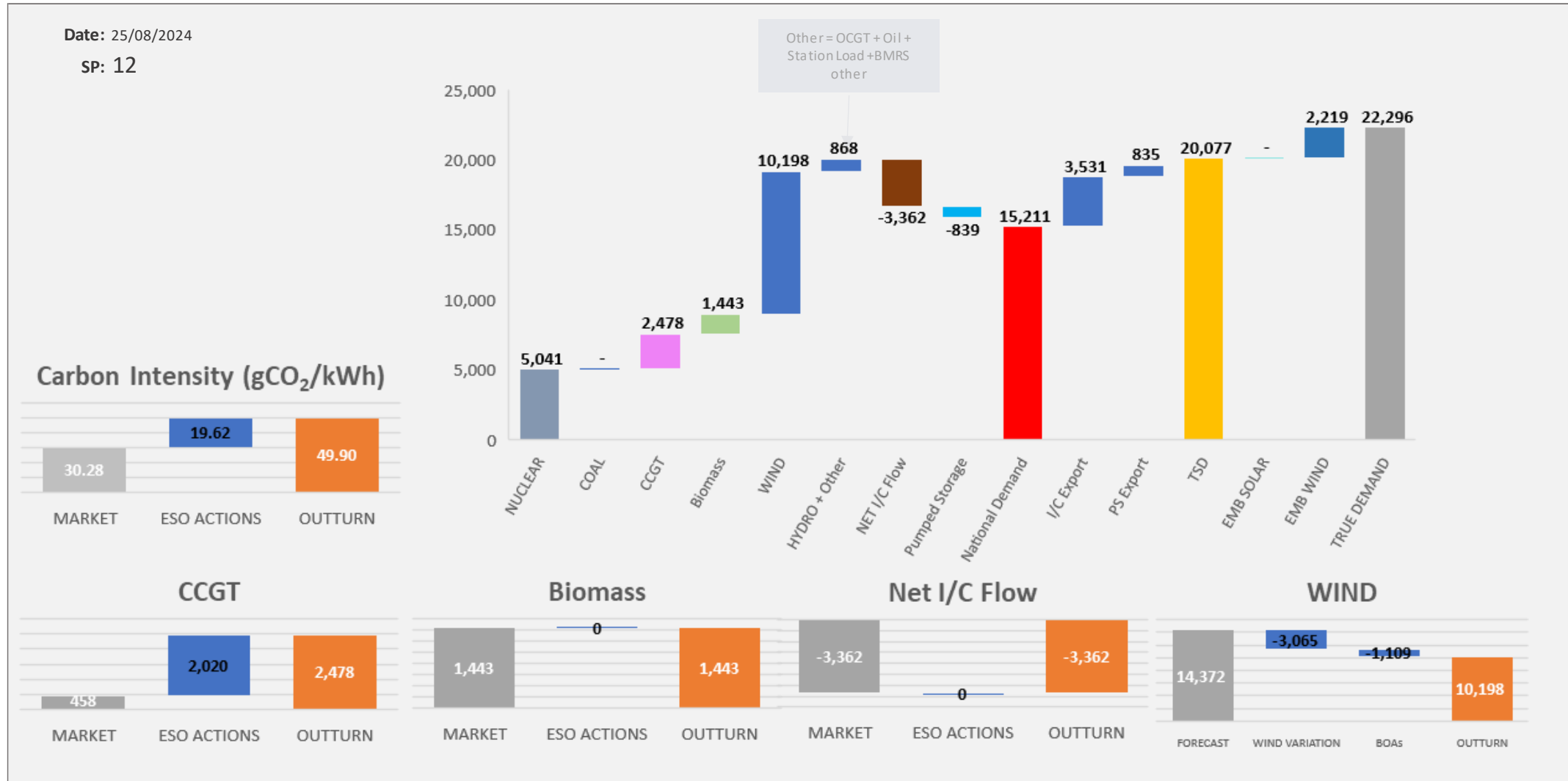
Share of cost



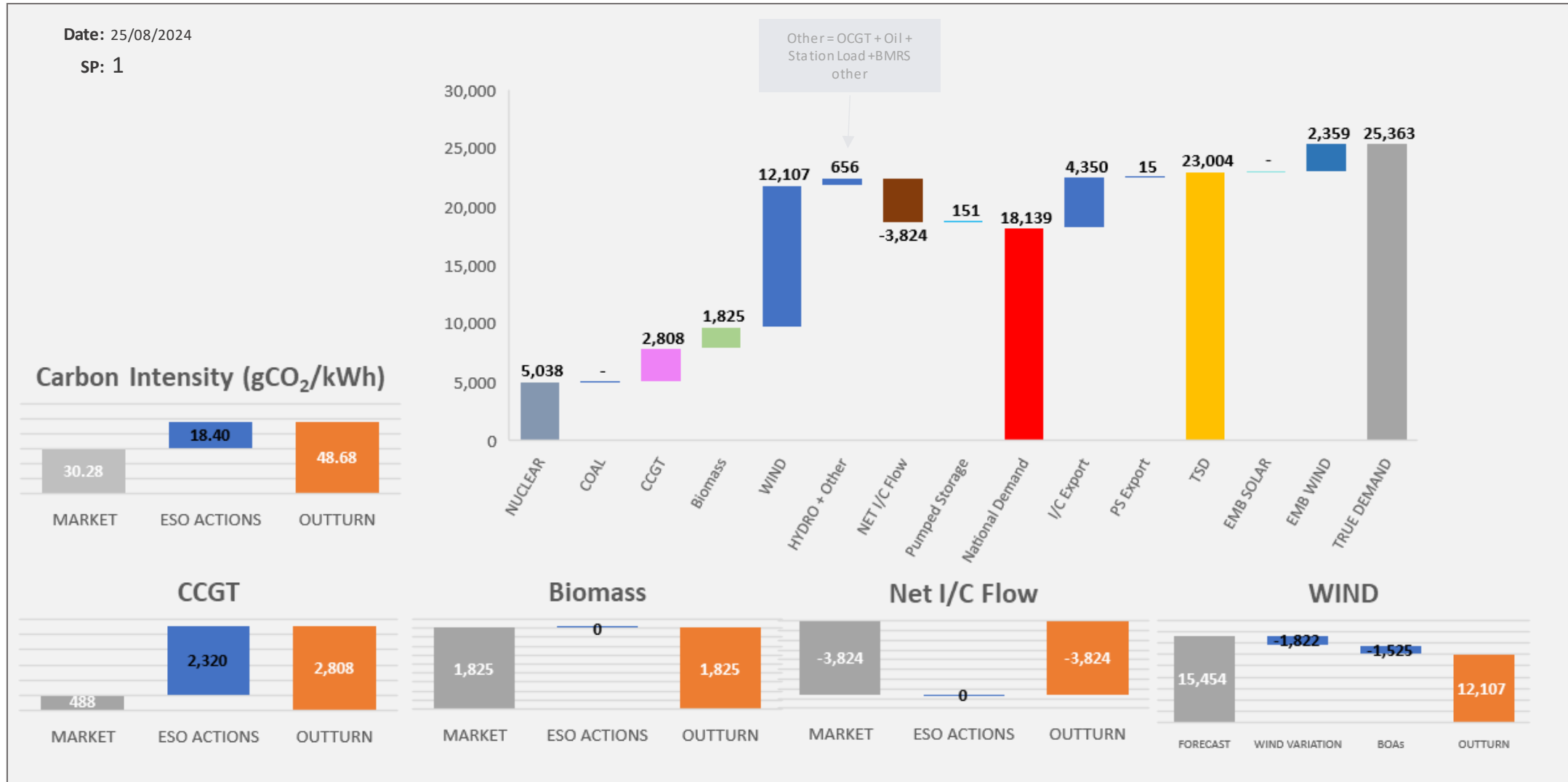
ESO Actions | Wednesday 28th August – Peak Demand – SP spend ~ £223k



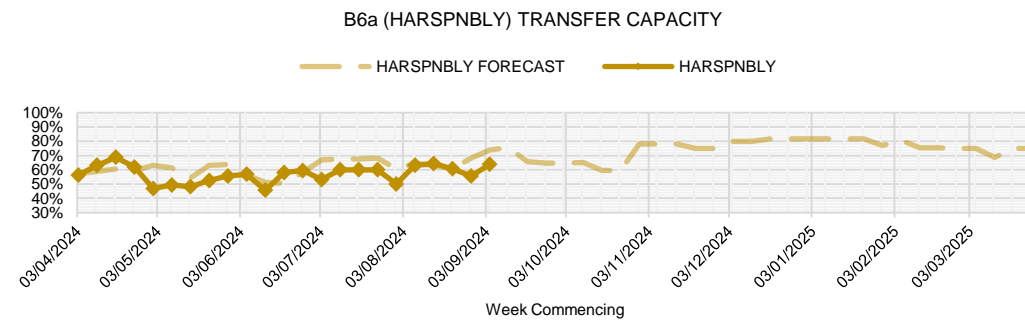
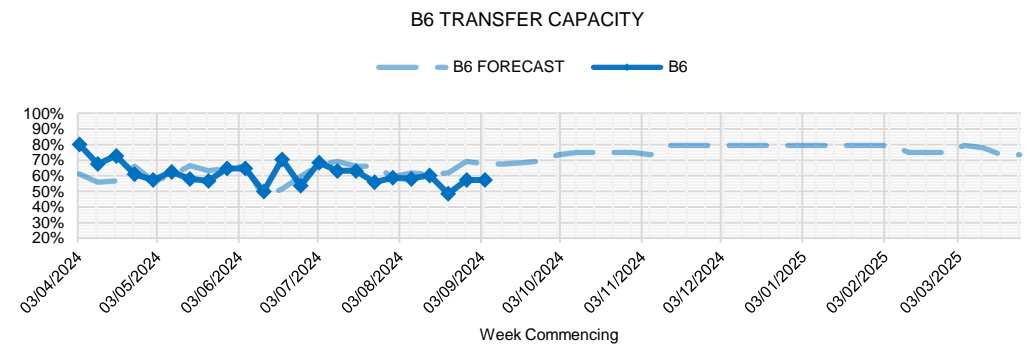
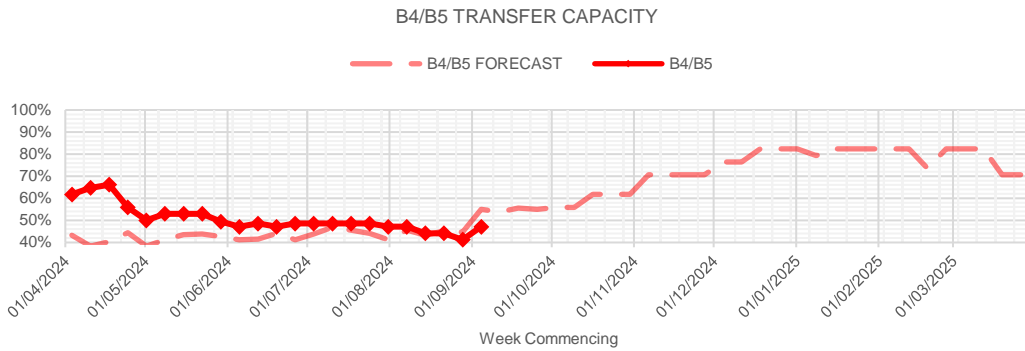
ESO Actions | Sunday 25th August – Minimum Demand – SP Spend ~ £243k



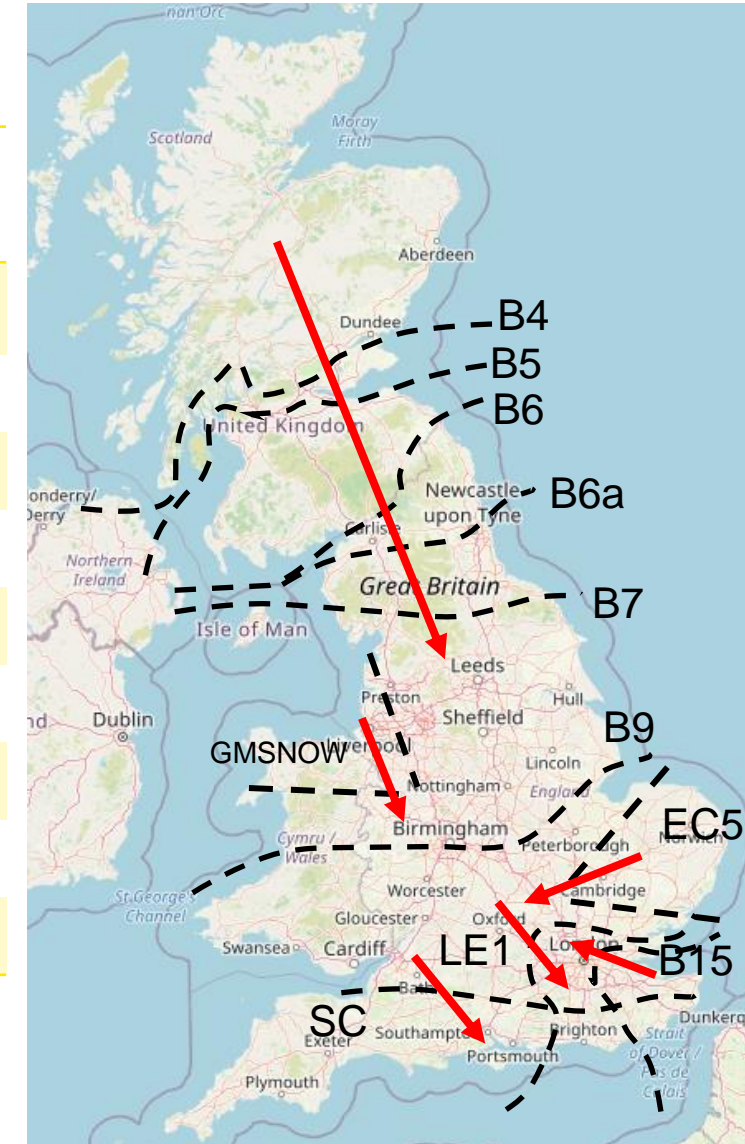
ESO Actions | Sunday 25th August – Highest SP Spend ~ £345k



Transparency | Network Congestion



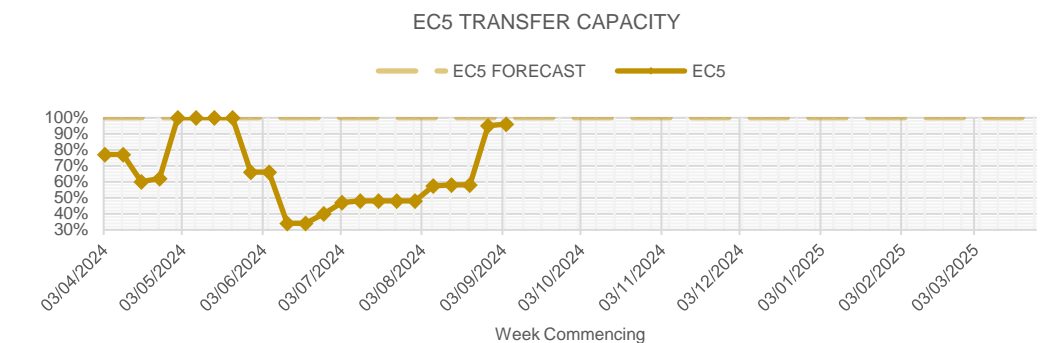
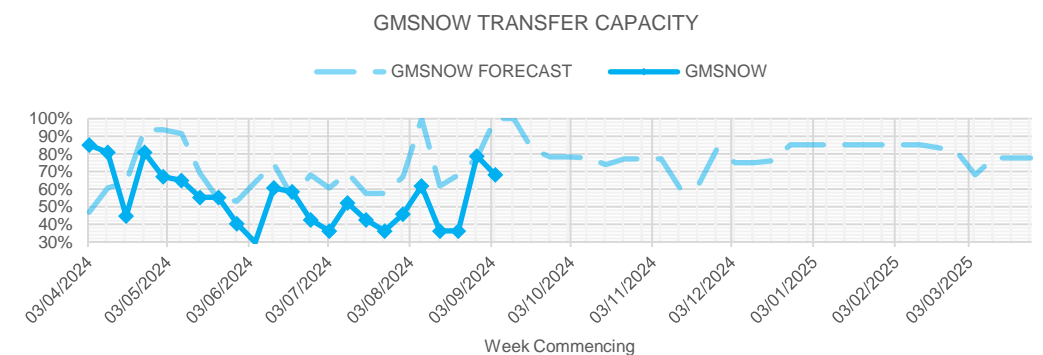
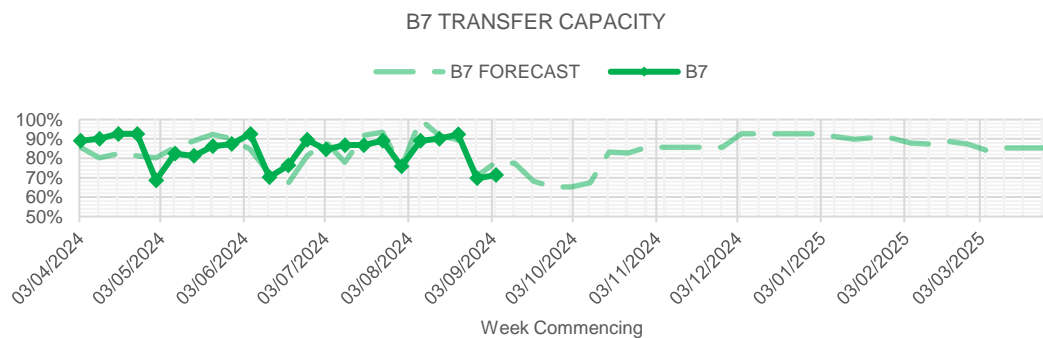
Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	47%
B6 (SCOTEX)	6800	57%
HARSPNBLY	8000	64%
B7 (SSHARN)	8325	71%
GMSNOW	4700	68%
EC5	5000	96%
LE1 (SEIMP)	8500	59%
B15 (ESTEX)	7500	76%
SC1	7300	100%



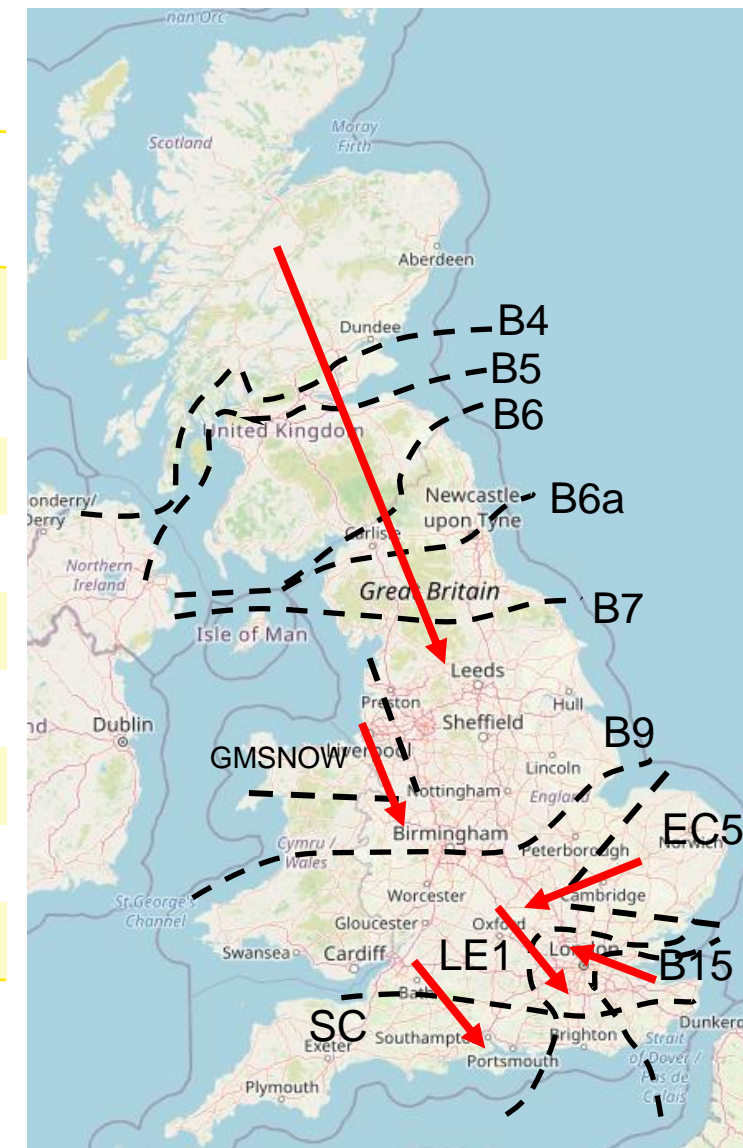
Day ahead flows and limits, and the 24-month constraint limit forecast are published on the ESO Data Portal: [Constraints Management](#)

(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)

Transparency | Network Congestion



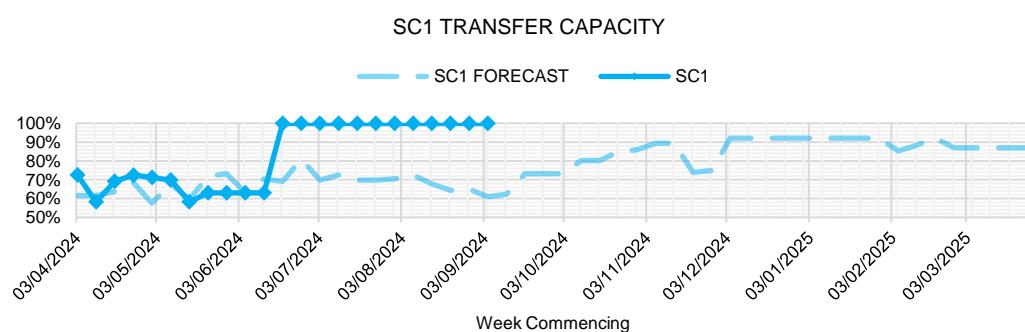
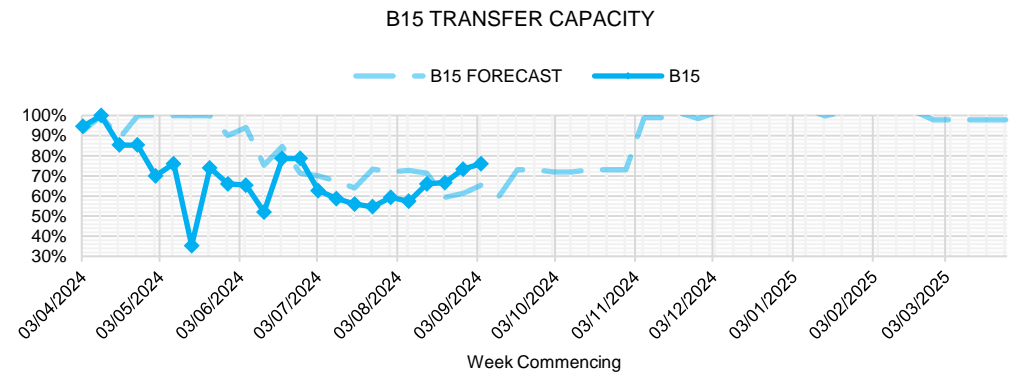
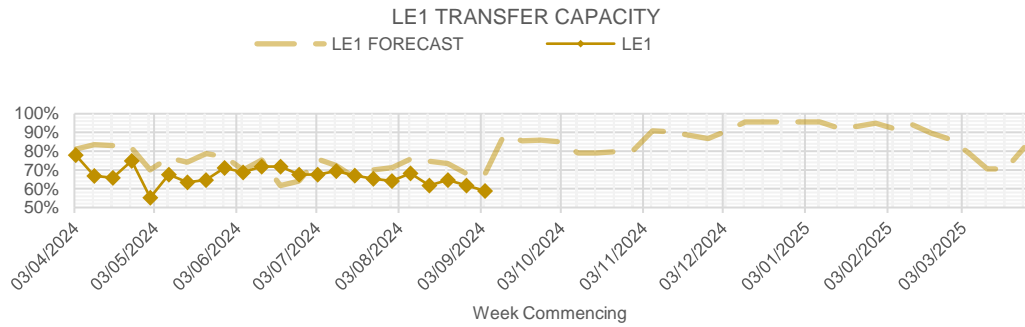
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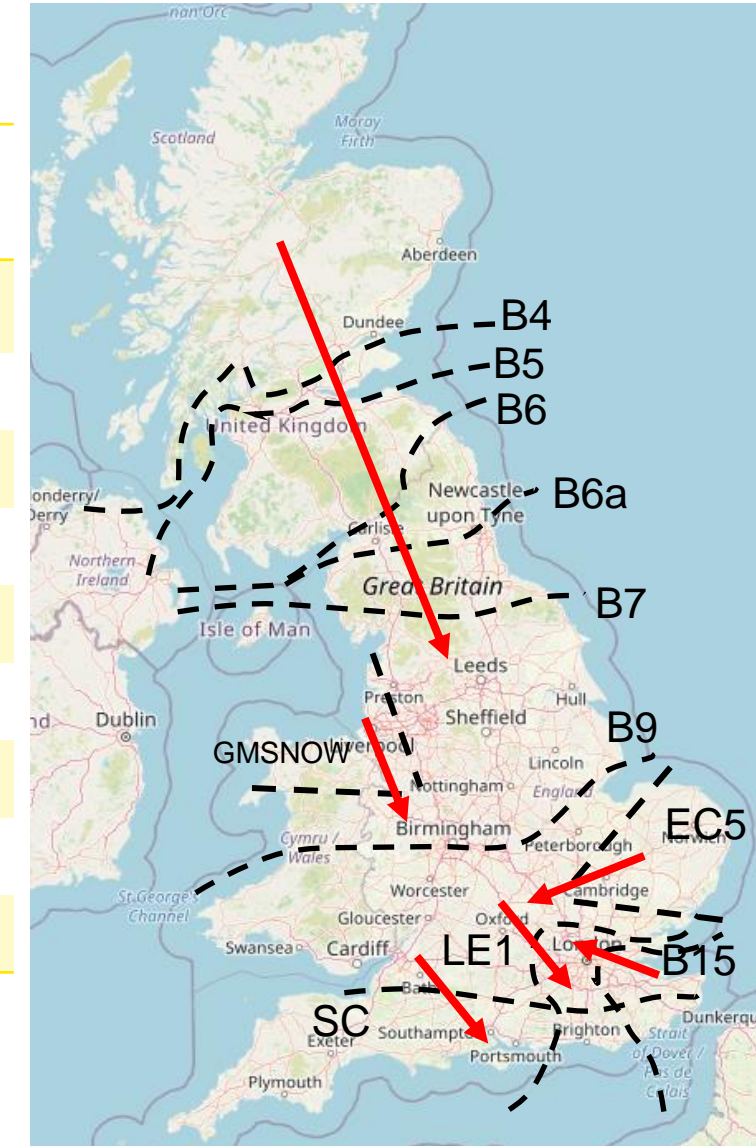
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Previously Asked Questions

Q: Also on the answer to the EA (Emergency Assistance) decrease of 50MW, what was the reason for why higher flows could not be secured?

A: This was due to local network voltage restrictions limiting the maximum flow on interconnectors in that region and there were no other market-based actions available other than Emergency Assistance.

Q: Regarding the answer for SHOS (Shoreham South) on 6th August. SHOS was certainly the cheapest when the prices came in to the BM, does this answer mean that the decision was taken outside of BM timescales and regardless of BMU's changing their prices to become the cheapest unit it would not have mattered?

A: The control room make decisions based on the lowest cost for the whole period (not the cheapest price per MWh in the current SP), while considering the minimum inertia requirement, constraints and cost to cover the evening peak. The units that were kept on during PV peak had lower prices for the whole period, whilst maintaining cost effective options for the evening peak.

Previously Asked Questions

Q: Regarding putting names on Qs please could you also add these to the Q&A log and when you are reading out Qs asked ahead of time. It is valuable to know who is asking them to put the Q into context so is it worthwhile adding them to the Q&A log for completeness?

A: We considered this option after the OTF survey as feedback given was very mixed – some people wanted names added to the slides/Q&A log, while others wanted to be able to ask questions anonymously.

We shared the following position at the OTF on 26th June:

We have received differing feedback on our approach asking for and including names in Q&A. We understand both perspectives and hope our approach is a fair compromise.

We require full names or organisations in the live Q&A via Slido but we will not publish the names in the Q&A log or on the previously asked questions slides.

If individuals would prefer to remain anonymous to the forum when asking questions, there are two methods available which are advertised at the start of each OTF session.

1. Using the advance question form. Questions asked in this way will be included in the slide pack the following week without names.
2. Via box.NC.Customer@nationalgrideso.com. Questions asked in this way will be responded to directly, unless we are explicitly asked to include the answer in the OTF.

Advance Questions

Q: Is it possible to get an update on the Green Link commissioning and commercial operations go live plans? Apologies if this is covered already (I did review some past events QAs)

A: Thank you for your question. Please contact Greenlink directly for commissioning and go live queries - [Greenlink](#).

Q: Ahead of the next triad season, can you please provide a definitive answer to a question that has previously not been answered clearly? When calculating the triad demand at the end of the season, the sum of settlement meters is used. Is that the sum of demand settlement meters, or the sum of generator settlement meters? If demand, exactly how is non-half-hourly demand factored into the calculation?

A: It is the sum of demand settlement meters. We use data from the following BMUs types which will include NHH: 2_, C_, V_, T_, E_, M_ BMUs.

Please see our answer to a similar question asked on [22 May 2024 \(slide 33\)](#):

Calculating the TRIADs

NESO take each SAA-I014 metering data file for November 1st to February 28th/29th period and perform the following steps:

- Extract the settlement date, settlement period and the run type,
- Extract the MWh figure by BMU (note the MWh is net demand where the Line Loss Factor has already been applied, data is not scaled for Transmission Loss Multiplier),
- Remove all interconnector "I_" BMUs,

Using the data from the processed file we then take the demand (denoted by MWh values <0) from the following BMU types:

- 2_ and C_ BMUs: multiply by -2
- V_, T_, E_, M_ BMUs: multiply all <0 MWh by -2

The peak TRIADs demand can then be determined by looking for the 3 highest settlement periods separated by 10 clear days.

Outstanding Questions

Q: Please can you provide some insight into the below scenario which occurred March 4th 2024.

We received this message:

“A request for Emergency Assistance has been agreed on a GB connected Interconnector. The requesting party was NGENSO. GB net flow will decrease by 716 MW between 12:50 04/03/2024 to 14:05 04/03/2024. Issued by Simon Williams at 12:45 on 04/03/2024.”

This action led to the system shortening by 716MW in SP27. Cashout has remained unchanged on Elexon Insights and those down-regulation actions never fed through post-event. Please can we have some clarity that if Emergency Assistance is used again in the future, we should expect the same outcome (no post-event trades being published)?

We are continuing to investigate this with our IT team and Elexon. We will maintain this as an outstanding question and publish a full answer when we have all the details.

Q: You've mentioned today a series of constraining on of CCGTs etc to support stability- can we understand patterns of operation occurring (two or three+ shifting?) could impact plant avail & reserve holding- is there need for long term signalling of stability needs to avoid this being excessive?

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.
- **The OTF is not the place to challenge the actions of individual parties** (other than the ESO) and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketreporting@nationalgrideso.com
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- **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

ⓘ 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

Publicly available

Appendix

Participation in the Operational Transparency Forum

Thank you to everyone who participates in the OTF, whether you join weekly, monthly, on specific occasions or follow up with the webinar recordings and published slides. We hear from participant feedback and our ESO colleagues that all of us value the opportunity to share information, ask questions and share the answers.

One of the reasons this format works so well is the professional courtesy we see demonstrated every week.

However, in recent weeks there have been some Slido questions and comments in the Q&A session directed at specific market participants suggesting their actions are not appropriate. This is concerning because:

- The statements are being made in a public forum without the opportunity to reply
- The negative comments may impact these businesses directly, or indirectly e.g.: through social media, etc.
- The individuals asking questions could not be traced using the details provided in Slido

The OTF is not the place to challenge the actions of individual parties (other than the ESO) and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at:

marketreporting@nationalgrideso.com

Remember, if you have reasons to remain anonymous to the wider forum, or have concerns your question may not be one to ask in public, you can use the advance questions or email options.

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 Slido 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

NESO Information Request Statement

The Energy Act 2023 and the power to request information.

Section 172 of The Energy Act 2023 provides NESO, as the Independent System Operator and Planner, with the power to require information, from anyone carrying out a relevant activity, to allow it to carry out any of its functions. This power will come into effect once NESO is operational.

In advance of this we are consulting on what the Information Request Statement will contain and what an Information Request issued by NESO may look like.

The Information Request Statement and Notice.

The Statement will be available on our website and will contain sections on why a request has been issued, the process of responding to a request, what happens if a recipient does not provide the information and how we will manage any data provided. A draft template of an Information Request Notice is also shared on our website.

The Consultation

We are running a consultation from **May 3rd to May 31st** which can be found at <https://www.nationalgrideso.com/what-we-do/how-we-operate/information-request-statement-consultation> and would welcome feedback from across industry to make sure we develop a statement which is clear and accessible.

Following the consultation period Ofgem will determine if the draft Statement is approved or if any changes are necessary.