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ESO Operational Transparency Forum

11 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

• **Balancing Reserve**

- Timeline for implementation of Incremental Volume Cost
- How is the IVC calculated including examples
- Dispatch Flexibility review methodology

• **Quick And Slow Reserve**

- Outline of the proposed service designs for Quick Reserve phase 2 and Slow Reserve
- Update on Quick Reserve phase 1 timeline and consultation process

Sign up for our series of Reserve webinars in the events tab on our future reserve webpage

<https://www.nationalgrideso.com/industry-information/balancing-services/reserve-services/future-reserve-services#Events>

Quick Reserve (Phase 1) drop-in sessions- starting 26 Sept

Join our series of weekly drop-in sessions where we'll run through and demonstrate some of the key requirements for registering and taking part in the Quick Reserve service prior to go live. Each session will include time for Q&A on all aspects of the service. Sign up in the events tab on the Quick Reserve webpage <https://events.teams.microsoft.com/event/25829ed3-88e4-4567-ab79-c53a15659a7d@f98a6a53-25f3-4212-901c-c7787fcd3495>

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



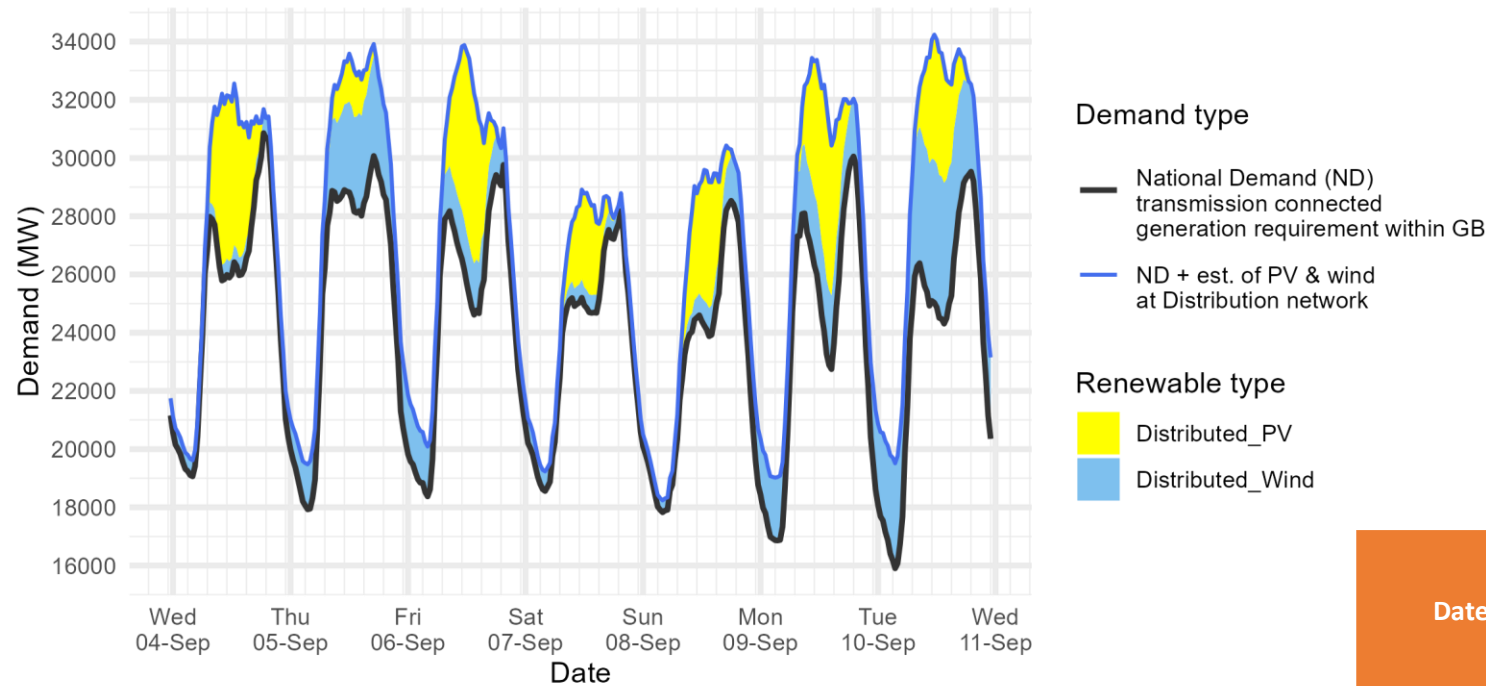
We welcome any questions before the Live Q&A via **Slido** using **#MFSEP24**

Future Event Summary

Event	Date & Time	Link
2024 Revenue and Charging Forum – In person	17 th September 9:00-15:00	
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
Monthly Reserve Webinars	23 rd September	Register here
Quick Reserve Webinars	26 th September	Register here

Demand | Last week demand out-turn

ESO National Demand outturn 04-10 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](#)

Distributed generation

Peak values by day

Date	OUTTURN	
	Daily Max Dist. PV (GW)	Daily Max Dist. Wind (GW)
04 Sep 2024	5.9	1.0
05 Sep 2024	1.6	3.5
06 Sep 2024	6.4	2.2
07 Sep 2024	3.3	0.9
08 Sep 2024	4.5	1.9
09 Sep 2024	6.0	2.6
10 Sep 2024	4.3	4.9

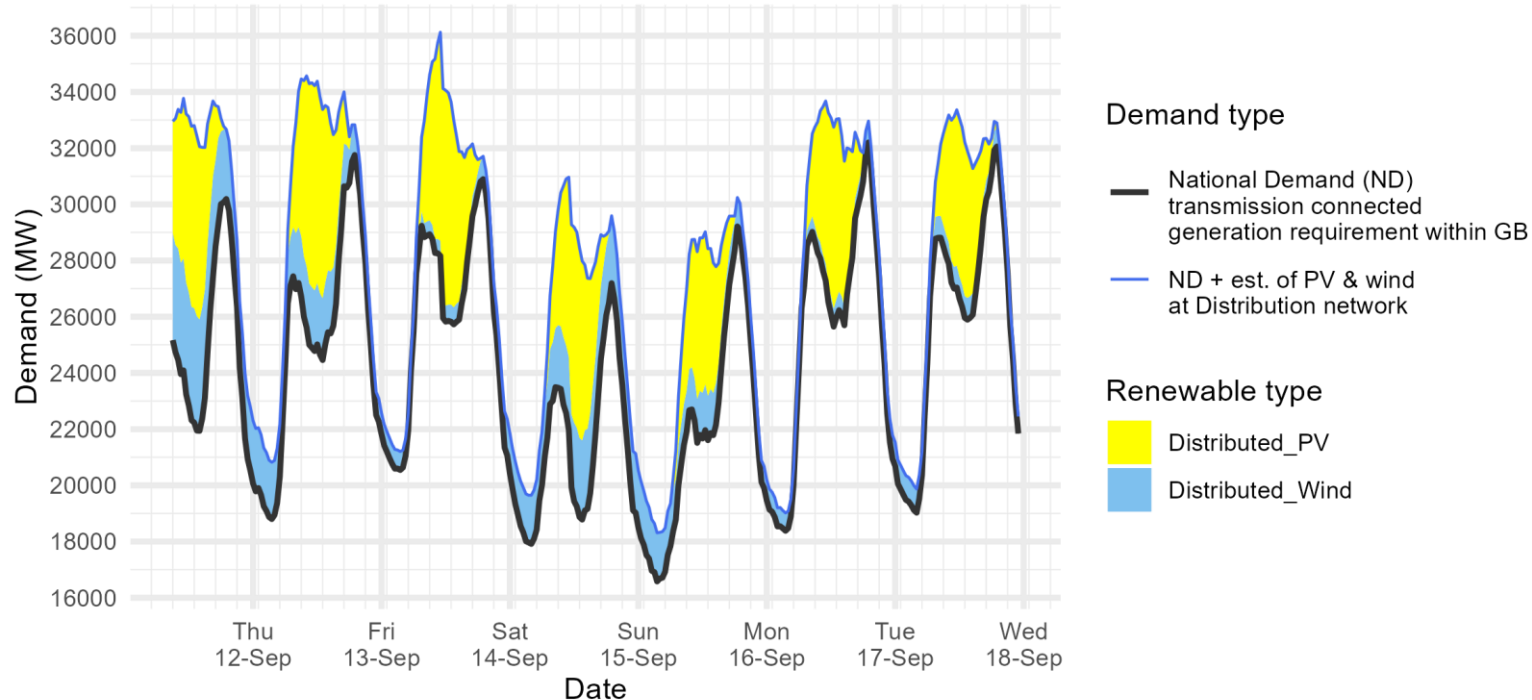
National Demand

Peaks and troughs

Date	Forecasting Point	FORECAST (Wed 04 Sep)		OUTTURN	
		National Demand (GW)	Dist. wind (GW)	National Demand (GW)	Dist. wind (GW)
04 Sep 2024	Evening Peak	30.6	0.8	30.9	0.7
05 Sep 2024	Overnight Min	18.0	1.6	17.9	1.5
05 Sep 2024	Evening Peak	30.5	2.4	30.1	3.4
06 Sep 2024	Overnight Min	18.2	1.6	18.4	1.7
06 Sep 2024	Evening Peak	28.8	1.4	29.4	1.3
07 Sep 2024	Overnight Min	17.9	0.8	18.6	0.7
07 Sep 2024	Evening Peak	27.4	0.7	27.5	0.6
08 Sep 2024	Overnight Min	17.4	0.7	17.8	0.4
08 Sep 2024	Evening Peak	27.9	0.8	28.5	1.5
09 Sep 2024	Overnight Min	18.0	0.7	16.9	2.2
09 Sep 2024	Evening Peak	30.7	1.1	29.9	1.9
10 Sep 2024	Overnight Min	18.7	0.9	15.9	3.6
10 Sep 2024	Evening Peak	30.6	1.1	29.4	3.2

Demand | Week Ahead

ESO Demand forecast for 11-17 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.

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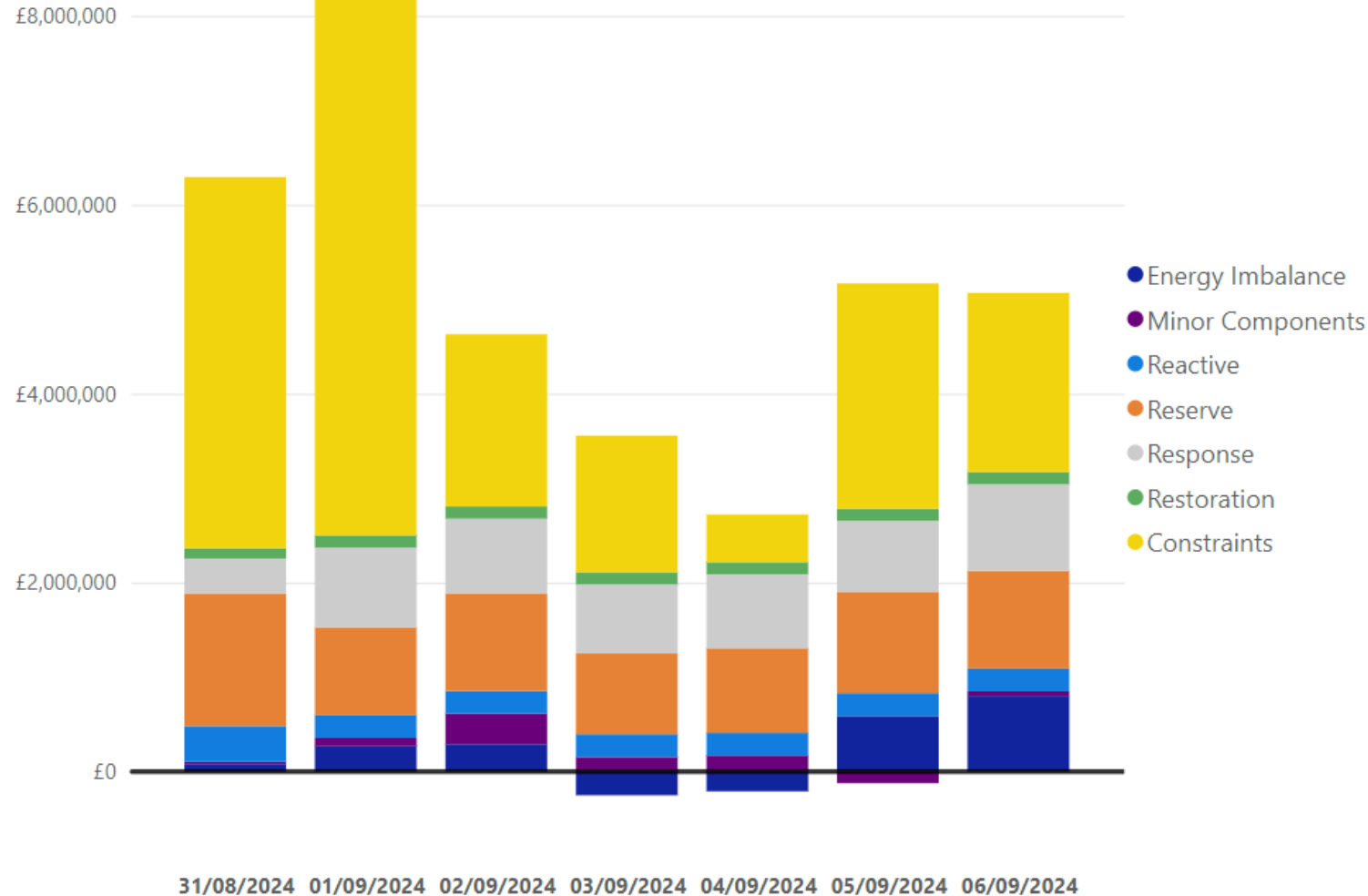
Historic out-turn data can be found on the [ESO Data Portal](#) in the following data sets: [Historic Demand Data](#) & [Demand Data Update](#)

National Demand

Peaks and troughs

Date	Forecasting Point	FORECAST (Wed 11 Sep)	
		National Demand (GW)	Dist. wind (GW)
11 Sep 2024	Evening Peak	30.1	2.6
12 Sep 2024	Overnight Min	18.8	2.0
12 Sep 2024	Evening Peak	31.5	1.2
13 Sep 2024	Overnight Min	20.5	0.7
13 Sep 2024	Evening Peak	30.8	0.7
14 Sep 2024	Overnight Min	17.9	1.7
14 Sep 2024	Evening Peak	26.5	2.5
15 Sep 2024	Overnight Min	16.6	1.7
15 Sep 2024	Evening Peak	29.2	1.0
16 Sep 2024	Overnight Min	18.4	0.6
16 Sep 2024	Evening Peak	31.9	0.7
17 Sep 2024	Overnight Min	19.0	0.8
17 Sep 2024	Evening Peak	31.9	0.7

ESO Actions | Category Cost Breakdown



£35.48M

Weekly Total

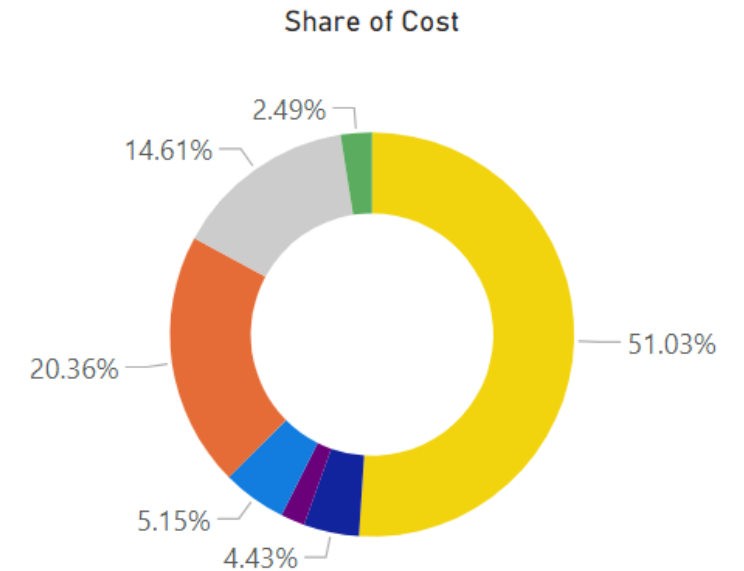
£77.38M

Previous Week Total

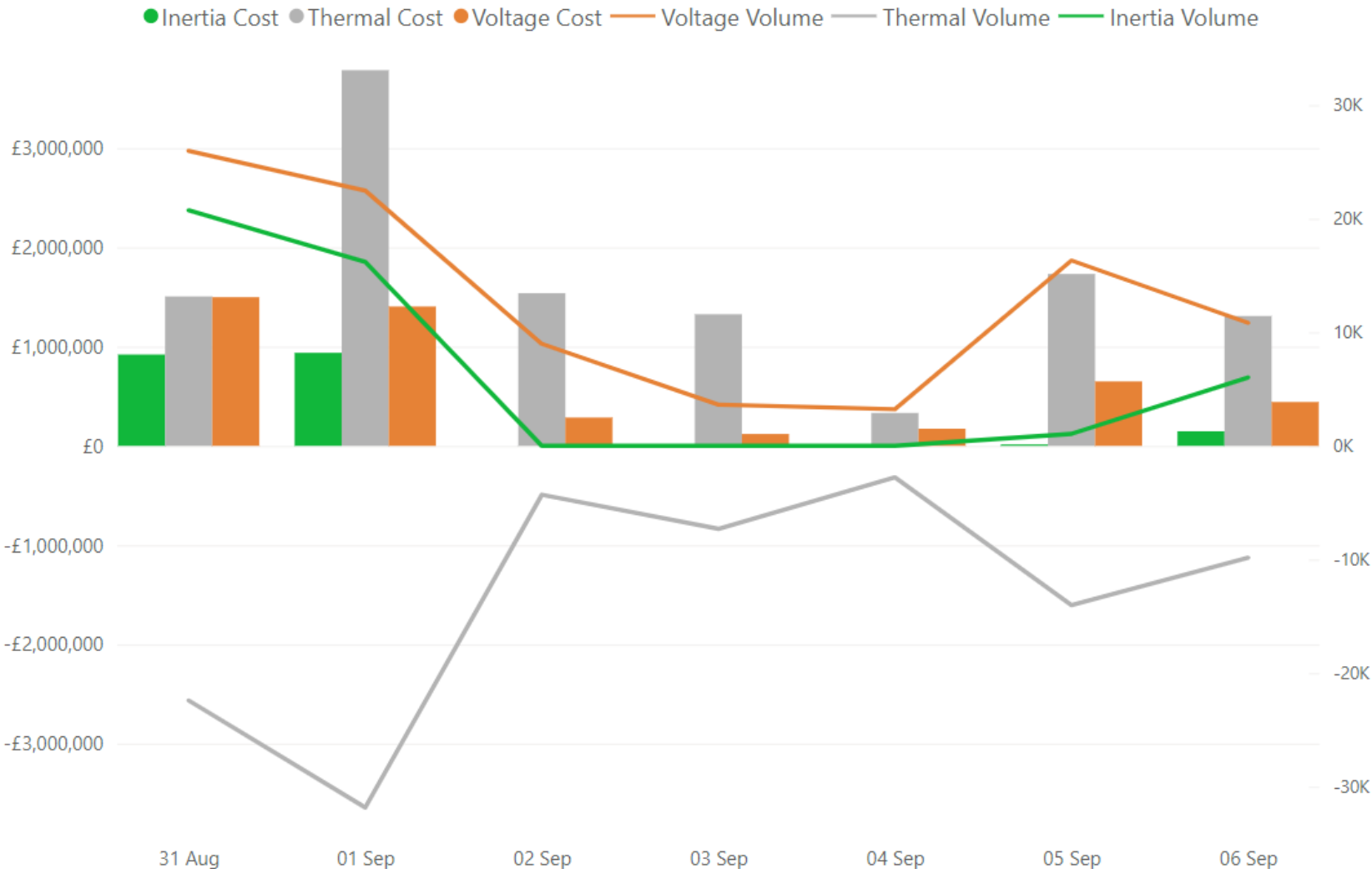
£9.42M

Past 30 Days Average

Date	Total (£)
31/08/2024	£6,291,977
01/09/2024	£8,626,025
02/09/2024	£4,629,083
03/09/2024	£3,305,760
04/09/2024	£2,512,494
05/09/2024	£5,045,825
06/09/2024	£5,067,224
Total	£35,478,388



ESO Actions | Constraint Cost Breakdown



Date: 31/08/2024 06/09/2024

£4.6M

Sum of Voltage Cost

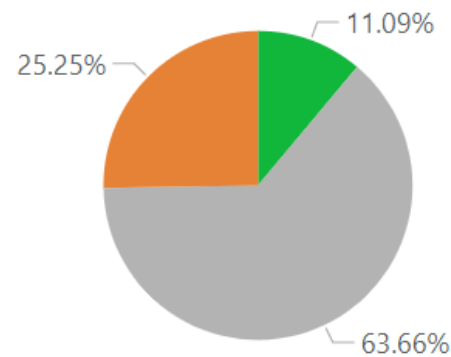
£2.0M

Sum of Inertia Cost

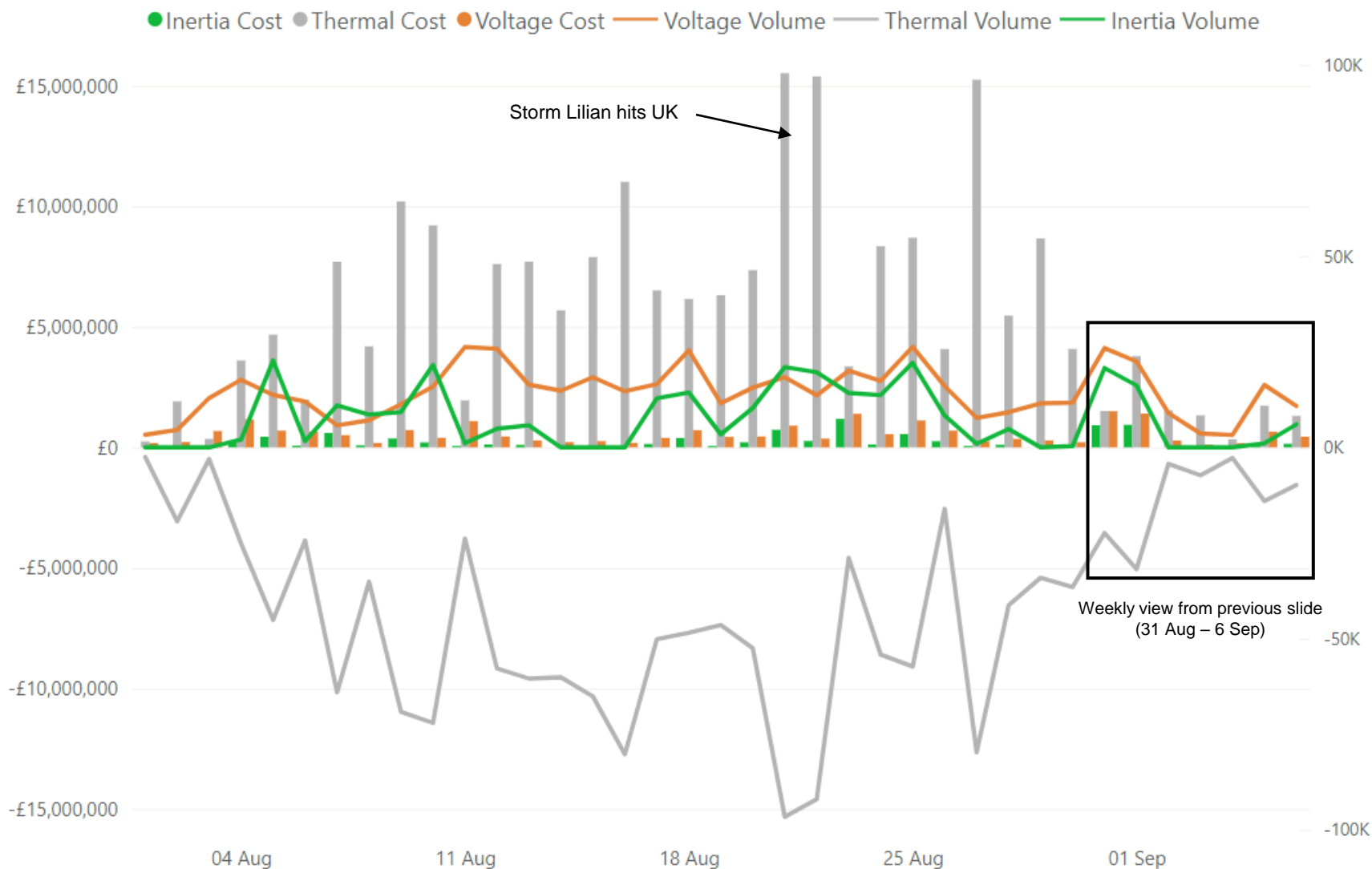
£11.5M

Sum of Thermal Cost

Share of cost

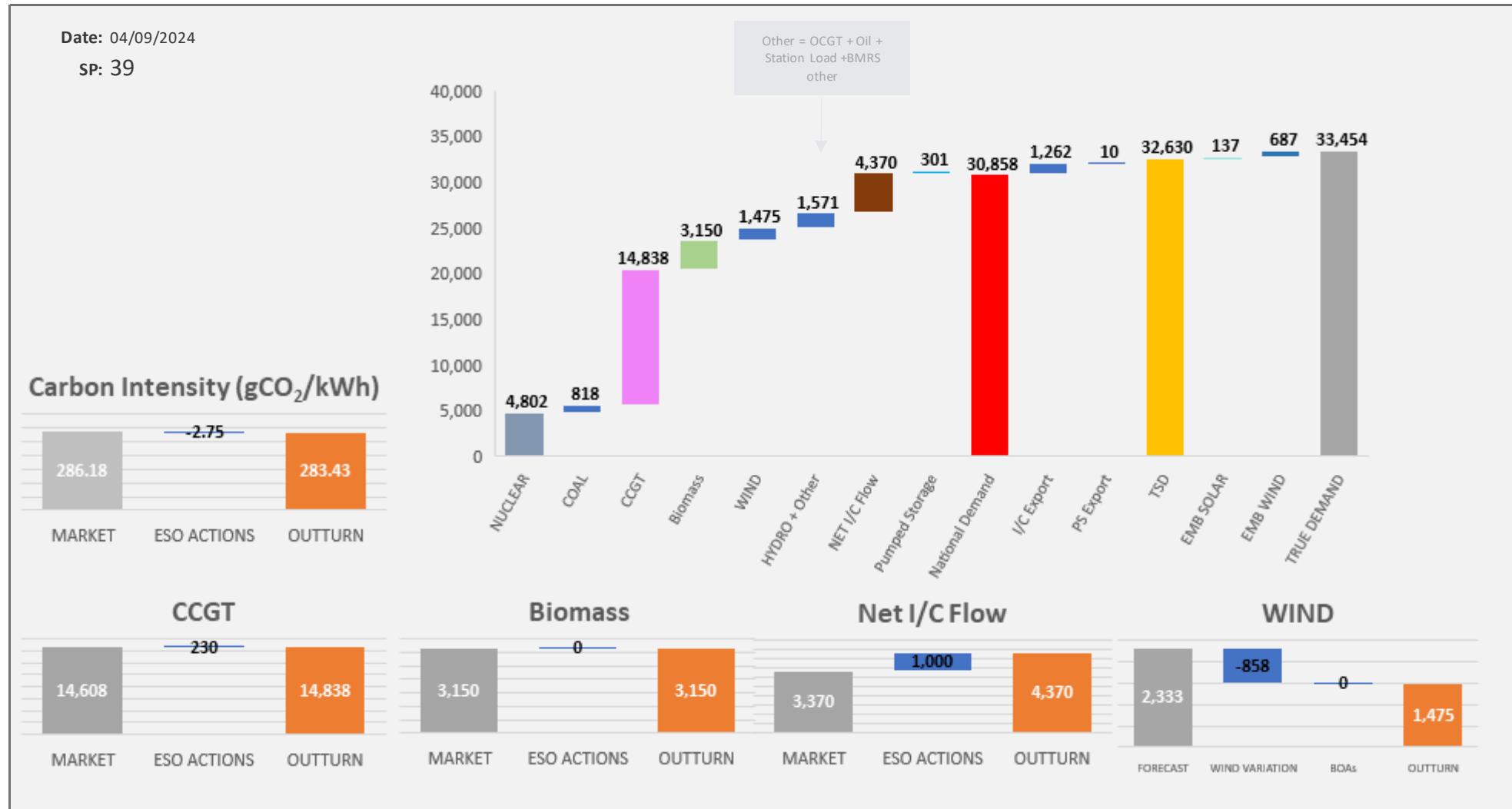


ESO Actions | Constraint Cost Breakdown (1 August – 6 September)

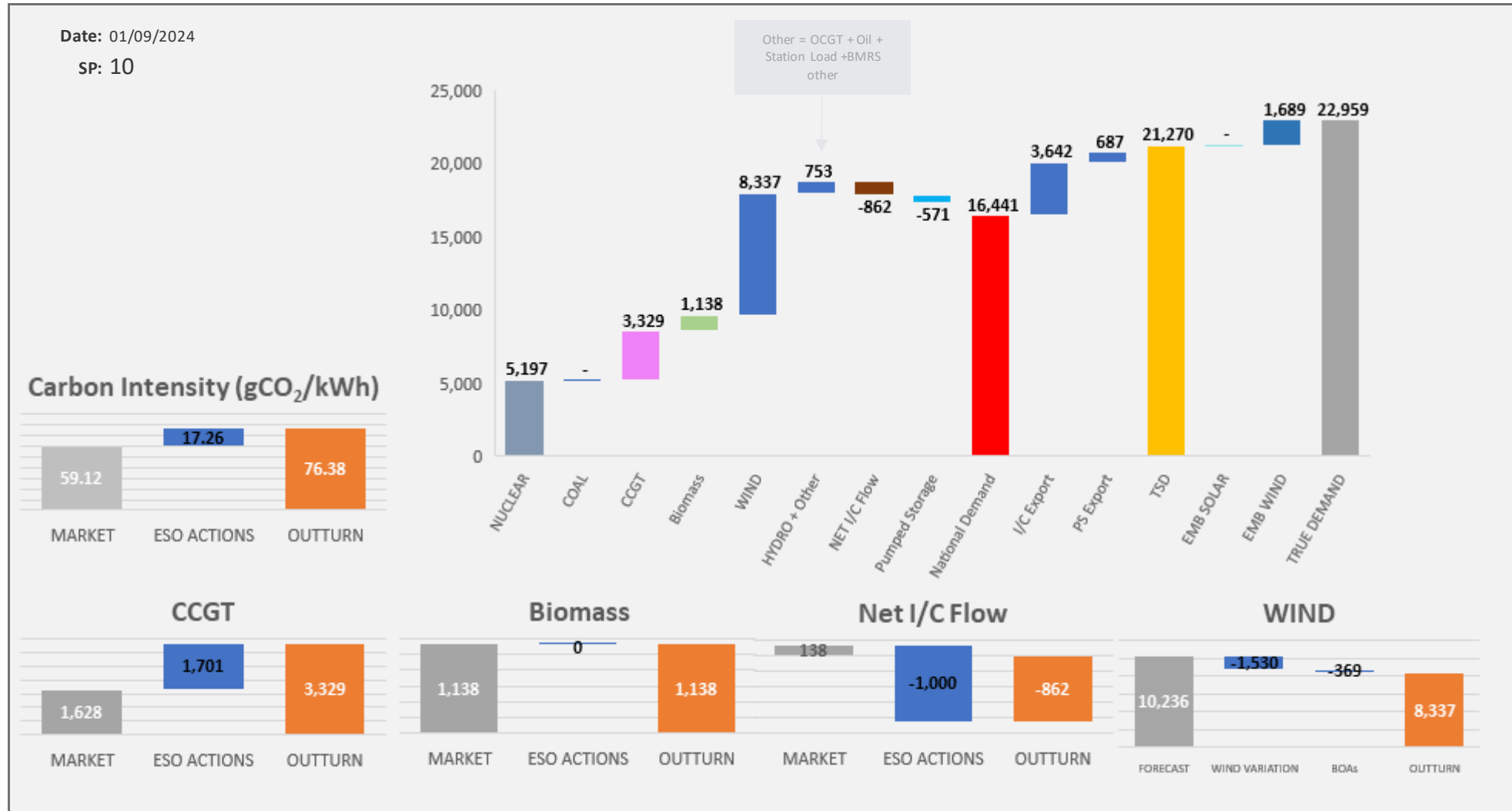


- Storm Lillian hit the UK on 22 August 2024. ESO responded with appropriate operational intervention which saw thermal constraint costs exceed £15m for the day (please find more information about managing the impact of storm conditions [here](#)).
- Thermal constraint costs in August surpassed £200m – over x4 the figure for July (£46m).
- Wind was Great Britain's largest source of generation in August, accounting for 31.8% of our electricity.
- Managing system inertia costs for August (£7.2m) are down -£0.5m from July.
- Voltage control costs for August (£17.5m) are up £6.3m from July.

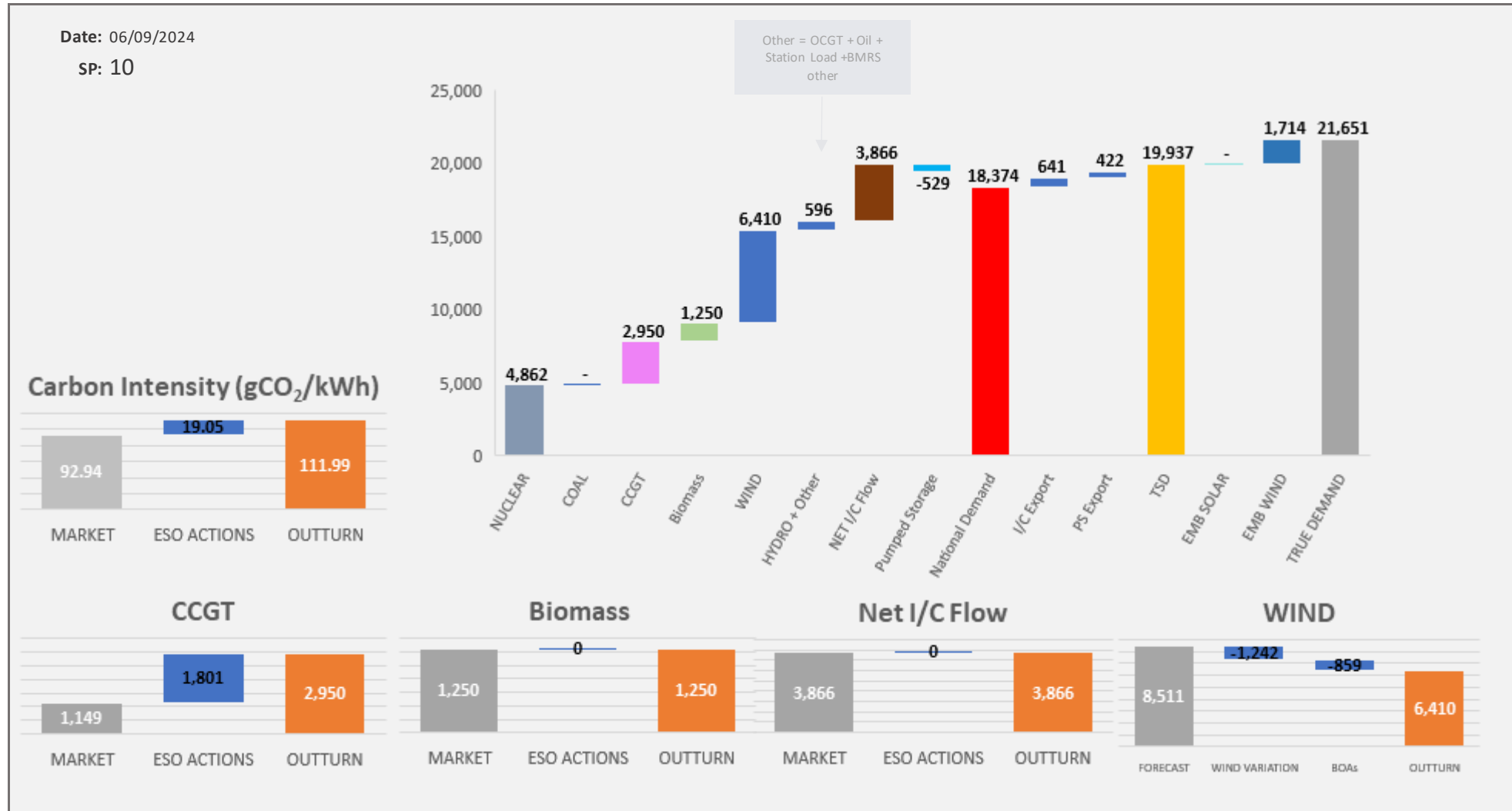
ESO Actions | Wednesday 4th September – Peak Demand – SP spend ~ £19k



ESO Actions | Sunday 1st September – Minimum Demand – SP Spend ~ £178k

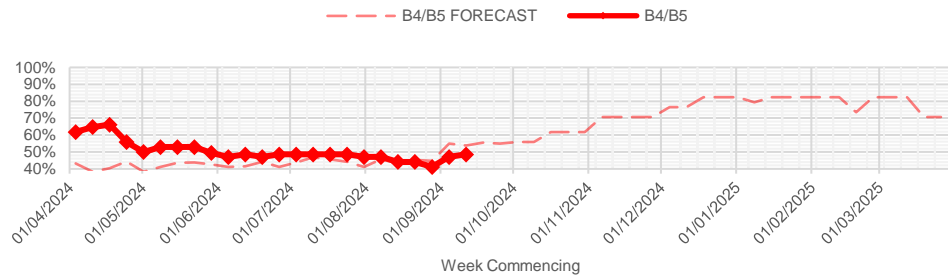


ESO Actions | Friday 6th September – Highest SP Spend ~ £259k

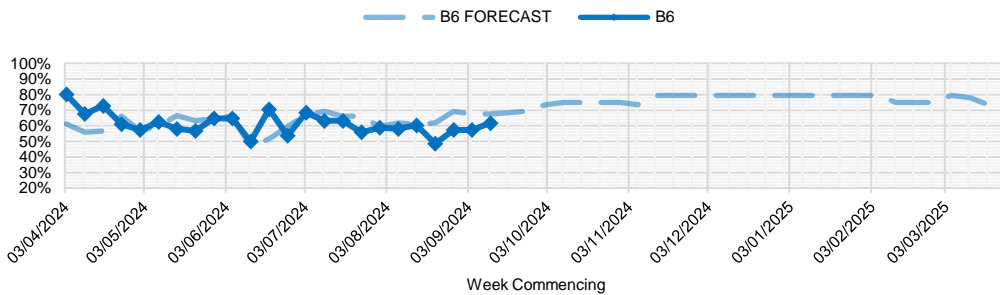


Transparency | Network Congestion

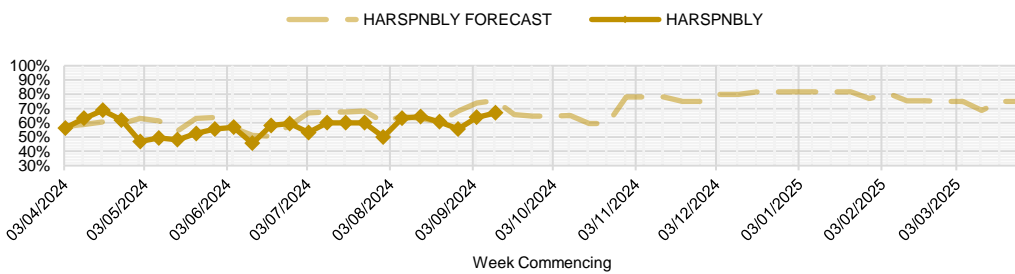
B4/B5 TRANSFER CAPACITY



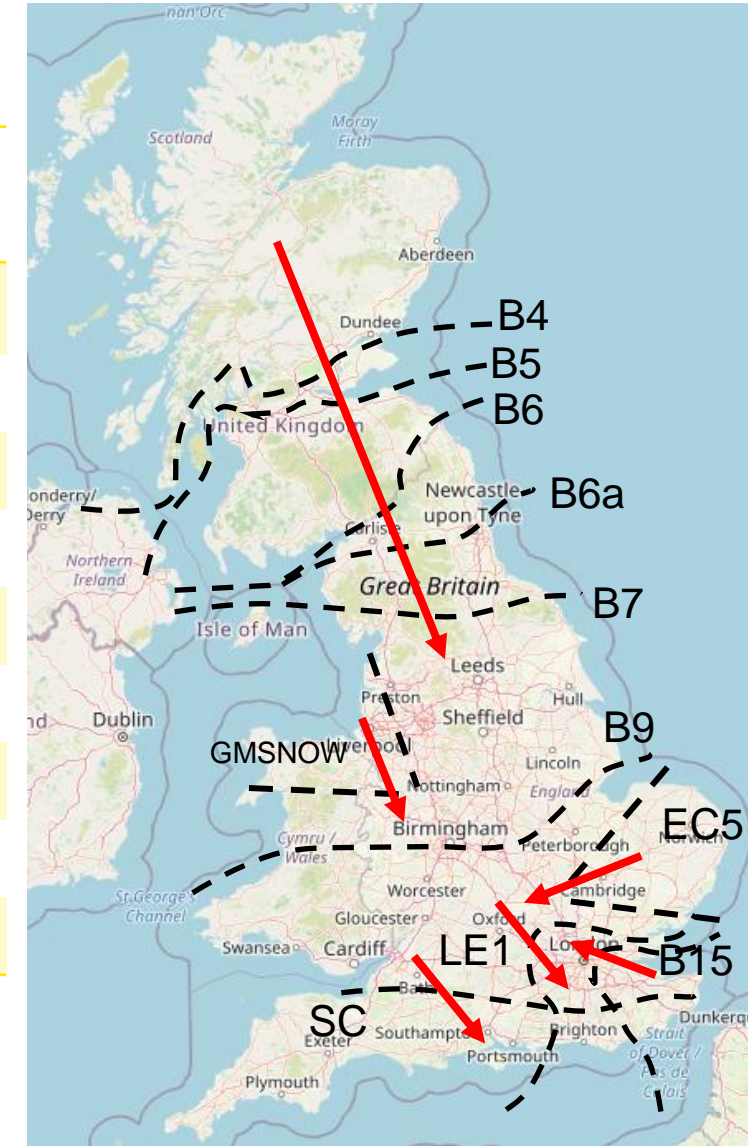
B6 TRANSFER CAPACITY



B6a (HARSPNBLY) TRANSFER CAPACITY



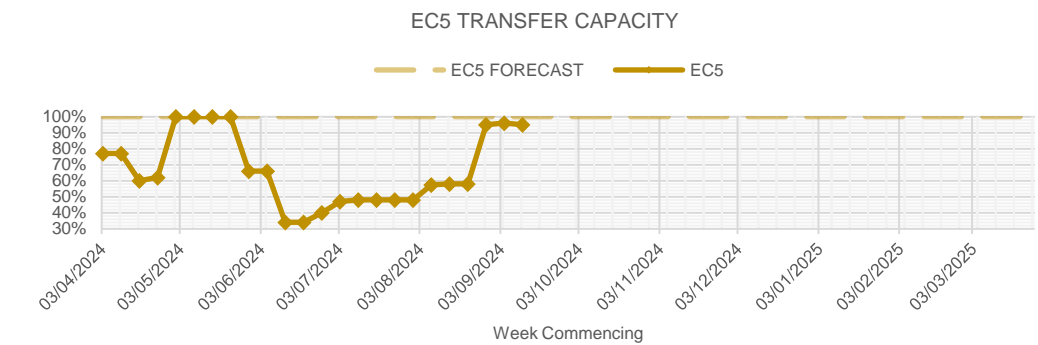
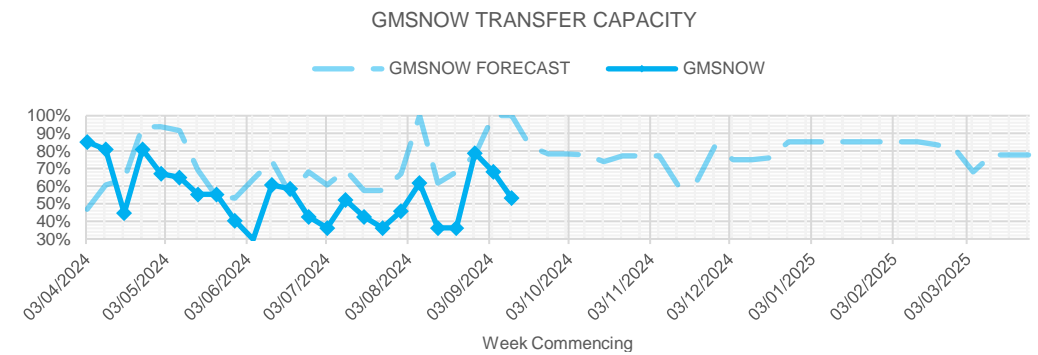
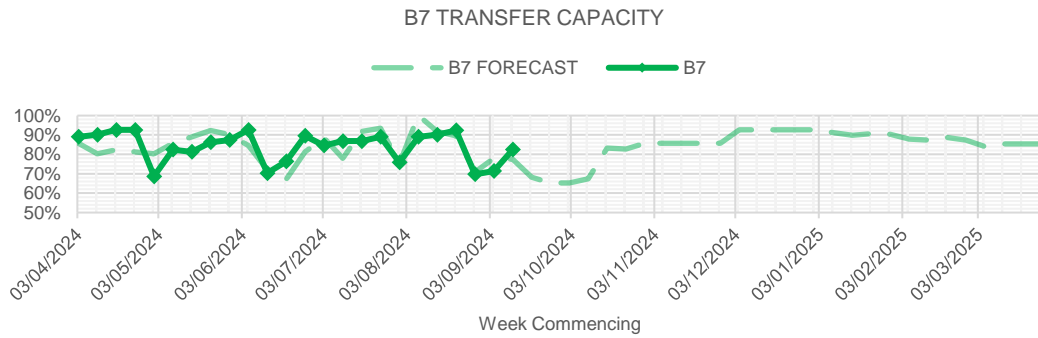
Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	49%
B6 (SCOTEX)	6800	62%
HARSPNBLY	8000	67%
B7 (SSHARN)	8325	82%
GMSNOW	4700	53%
EC5	5000	95%
LE1 (SEIMP)	8500	60%
B15 (ESTEX)	7500	76%
SC1	7300	100%



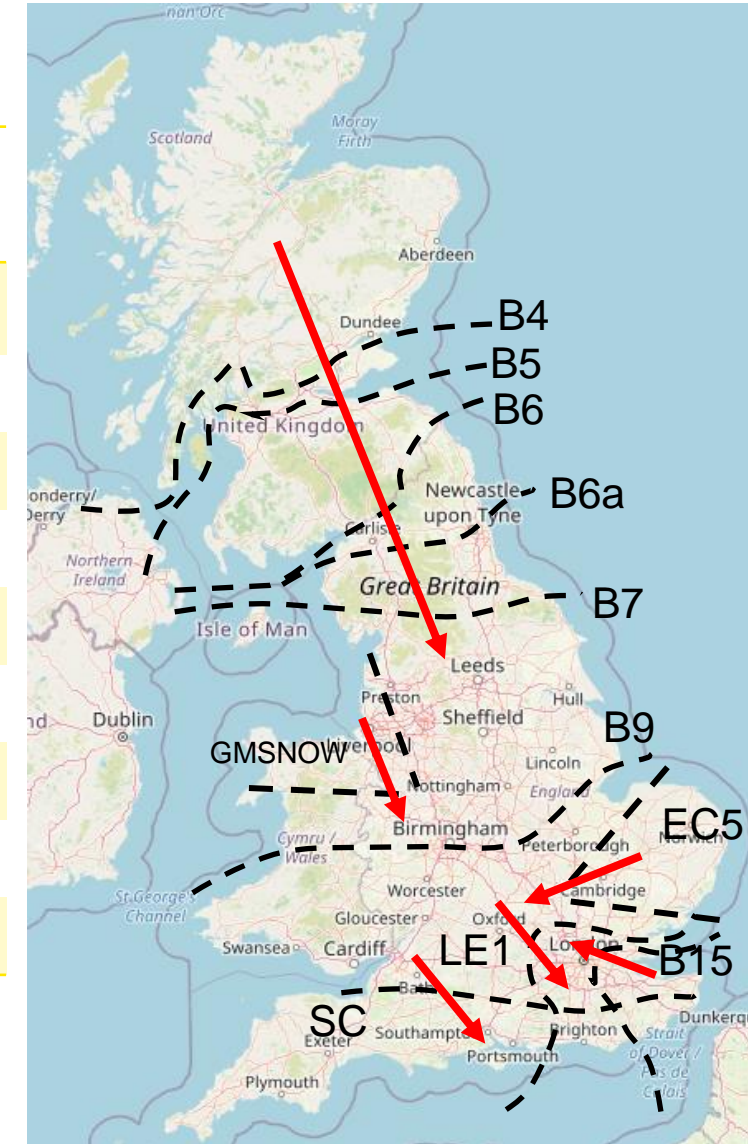
Day ahead flows and limits, and the 24-month constraint limit forecast are published on the ESO Data Portal: [Constraints Management](#)

(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



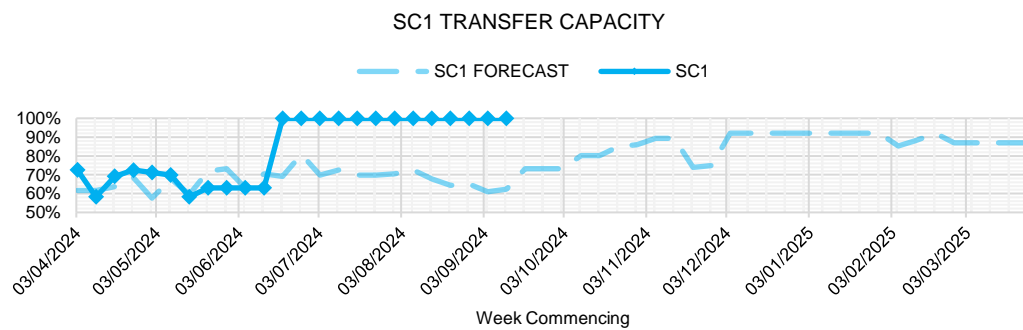
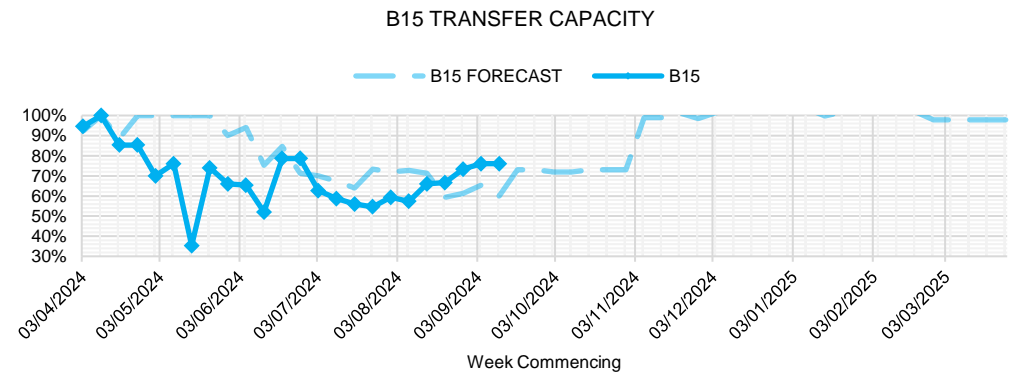
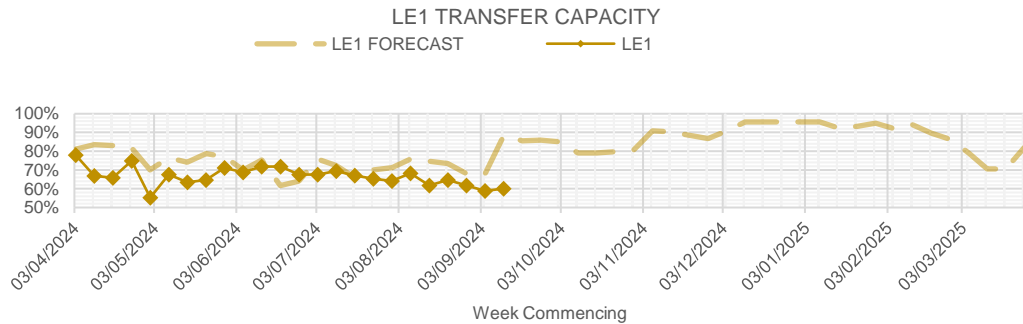
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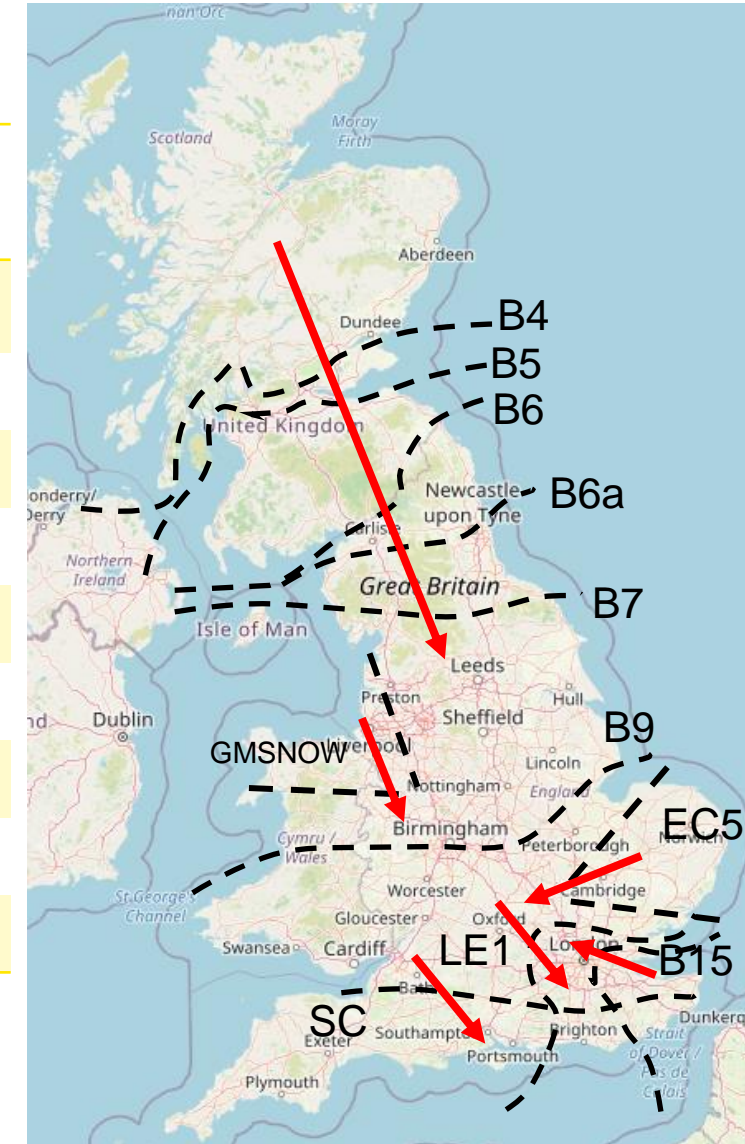
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Previously Asked Questions

Q: 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?

A: Yes, in operational timescales we regularly utilise CCGTs to support system stability and the reasons for the variation in these running regimes i.e. if we two shift or not will vary with system conditions including the variation in renewables and interconnector flows. As we need to optimise not only the energy, frequency holding, dynamic voltage requirements, and inertia, there isn't really a standard pattern.

For longer term stability needs we regularly review these requirements and you'll be aware of the stability pathfinders which are adding inertia to our system monthly, and we'd encourage as much participation in these as possible from market providers.

Q: I can only find the draft good industry practice guidance for wind farm FPNs online, is there a final version published? if so, where can I find it? Thank you

A: Yes, the final version has been published. All documents and data related to PN accuracy can be found at the bottom of this page: <https://www.nationalgrideso.com/industry-information/balancing-costs>

For reference, please find the link to the final guidance: <https://www.nationalgrideso.com/document/324041/download>

Previously Asked Questions

Q: Can the requests for TO Emergency Return to Service names the boundary impacted?

A: Thank you for your question. As this question requires liaising with multiple areas of ESO we will take this away to work out how best to approach this going forward.

Q: Not sure I understand how we have demand with limited impact from wind over the last week, but constraints costs are very high. Is this because all the boundaries are constrained by outages?

A: Thanks for the question. Constraint costs between 24th – 30th August were relatively high due to a combination of high levels of transmission-connected wind generation and several outages taking place at the same time - thus requiring extensive curtailment actions.

Previously Asked Questions

Q: We would like to know the frequency of CMIS Arming data files at NG ESO data portal. The last we have seen was published around May, since then we have not seen any data published on CMIS arming. Is it that the service has not been utilised since/ is there a frequency that this data is published at

A: Thank you for flagging this – we'll pick up with the relevant ESO team and confirm the frequency of the upload of these files.

Q: What's the difference in the Demand slide for Wind daily max outturn and the wind Outturn in table right below it again?

A: The top table shows the peak distributed PV and maximum Wind generation at any point during that day.

The bottom table currently shows the National Demand peaks and troughs, and the distributed PV/Wind generation at the corresponding settlement periods.

We've updated the table titles to hopefully clear up any confusion.

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)?

Q: What was the reason for the £ 3036.26 /MWh unflagged GB-Belgium interconnector trade on 28/08/24, SP35-36? The reason stated was "Margin", however the action being unflagged feels unusual given other pricing.

Q: Following on from Shivam's question, can you also please explain why non BM FR was called at prices up to £2949.51 when there were flexible units available in the BM, and the control room were taking bids on other flexible units?

Q: There was a BMRS outage on Thursday and SSP settled at negative £19/MWh according to ELEXON. Yet these cheap SPs traded above £100/MWh on M7, so SSPs below £19/MWh do not seem correct. Could you explain these different prices? Thanks.

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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- **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 was removed

ⓘ 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.