

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

Future deep dive / focus topics

Today

None

<u>Future</u>

Space Weather – 2 October

Clean Power 2030 – 9 October

Winter Outlook – 16 October (report will be published on 8th October)

Clean Power 2030 – 6 November

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

Becoming the National Energy System Operator (NESO)

Energy Secretary Ed Miliband has confirmed that the National Energy System Operator (NESO) will launch on 1 October following the government agreeing to acquire the Electricity System Operator (ESO) from National Grid, transferring the ESO into public ownership.

As NESO, we'll be a new independent organisation responsible for planning Britain's entire energy system, operating the electricity network and offering expert advice to the energy sector's decision makers.

More information about NESO can be found here including past webinar recordings.

Please subscribe to our new NESO mailing list <u>here</u> and select 'Operational Transparency Forum (OTF)' to continue receiving future OTF meeting invites and other communications.

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

Balancing Reserve Webinars - starting 23 Sept (next 21 Oct)

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

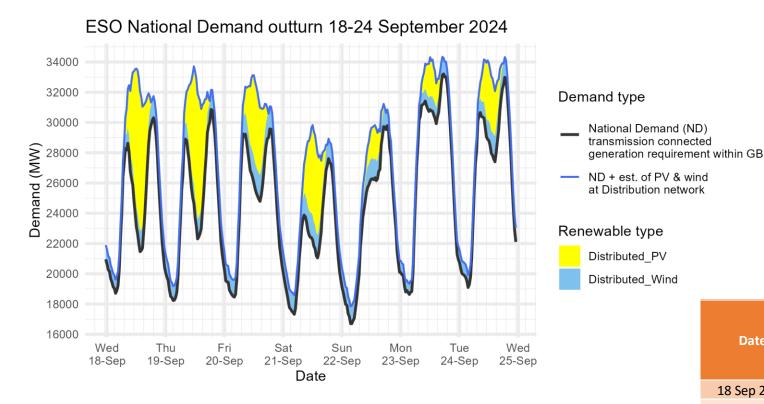
Quick Reserve (Phase 1) drop-in sessions- starting 26 Sept

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

Future Event Summary

Event	Date & Time	Link
Quick Reserve Drop Ins	26 th September	Register here
Monthly Reserve Webinars	21 st October, 18 th November	Register here

Demand | Last week demand out-turn



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 <u>does not include</u> 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 <u>ESO Data Portal</u> in the following data sets: <u>Historic Demand Data & Demand Data Update</u>

Distributed generation

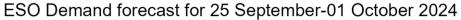
Peak values by day		OUTTURN	
	Date	Daily Max Dist. PV (GW)	Daily Max Dist. Wind (GW)
	18 Sep 2024	9.6	1.6
	19 Sep 2024	8.4	1.4
	20 Sep 2024	5.4	1.7
	21 Sep 2024	6.0	1.6
	22 Sep 2024	2.2	1.4
	23 Sep 2024	2.6	1.1
	24 Sep 2024	4.0	1.8

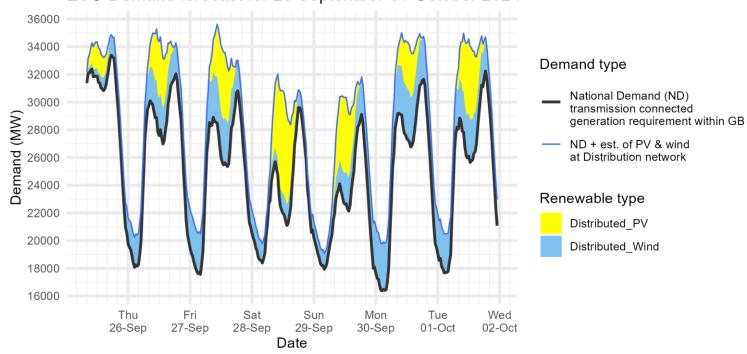
National Demand

Реак	Peaks and troughs FORECAST (Wed 18 Sep)		OUTTURN		
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)	National Demand (GW)	Dist. wind (GW)
18 Sep 2024	Evening Peak	31.1	1.4	30.1	1.4
19 Sep 2024	Overnight Min	18.8	1.0	18.2	1.0
19 Sep 2024	Evening Peak	31.4	1.3	30.9	1.3
20 Sep 2024	Overnight Min	18.8	1.0	18.5	1.1
20 Sep 2024	Evening Peak	29.9	1.3	29.6	1.5
21 Sep 2024	Overnight Min	17.8	1.0	17.3	1.3
21 Sep 2024	Evening Peak	27.8	1.1	27.6	1.3
22 Sep 2024	Overnight Min	17.1	0.8	16.7	1.2
22 Sep 2024	Evening Peak	29.6	0.7	29.8	1.1
23 Sep 2024	Overnight Min	18.3	0.5	18.6	0.7
23 Sep 2024	Evening Peak	32.7	0.5	33.2	1.0
24 Sep 2024	Overnight Min	19.2	0.5	19.1	0.8
24 Sep 2024	Evening Peak	32.4	0.8	33.0	1.3

FORECAST (Wed 25 Sep)

Demand | Week Ahead





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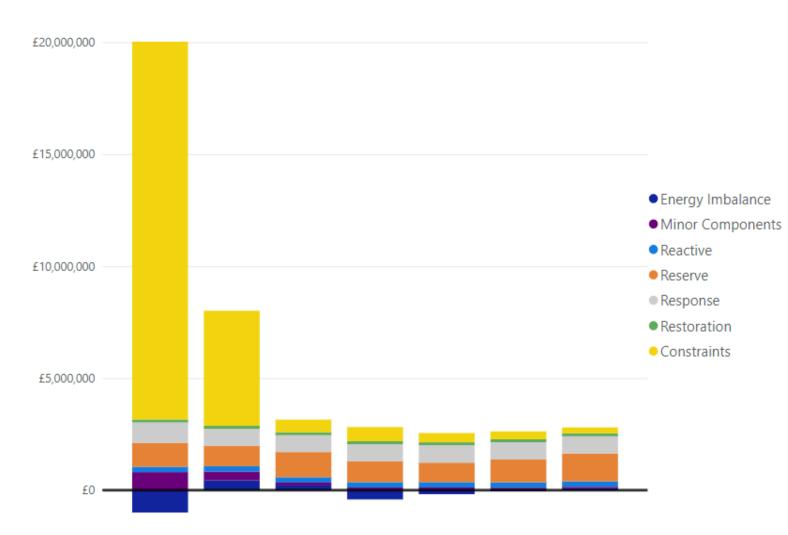
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National Demand Peaks and troughs

		TORLEGRO! (Trea 25 Sep)		
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)	
25 Sep 2024	Evening Peak	33.4	1.4	
26 Sep 2024	Overnight Min	18.1	2.2	
26 Sep 2024	Evening Peak	32.0	2.2	
27 Sep 2024	Overnight Min	17.6	2.9	
27 Sep 2024	Evening Peak	30.8	2.2	
28 Sep 2024	Overnight Min	18.4	1.4	
28 Sep 2024	Evening Peak	29.6	1.2	
29 Sep 2024	Overnight Min	17.9	1.1	
29 Sep 2024	Evening Peak	29.1	2.7	
30 Sep 2024	Overnight Min	16.4	3.4	
30 Sep 2024	Evening Peak	31.7	3.1	
01 Oct 2024	Overnight Min	17.7	2.8	
01 Oct 2024	Evening Peak	32.2	2.3	

Slido code #OTF

ESO Actions | Category Cost Breakdown



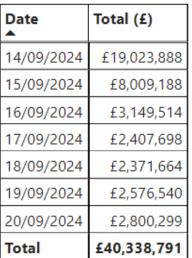
£40.34M
Weekly Total

£61.52M

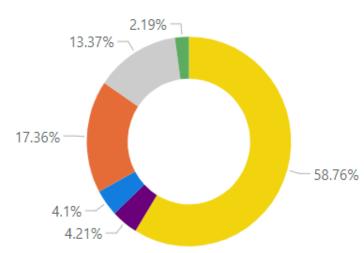
Previous Week Total

£8.00M

Past 30 Days Average



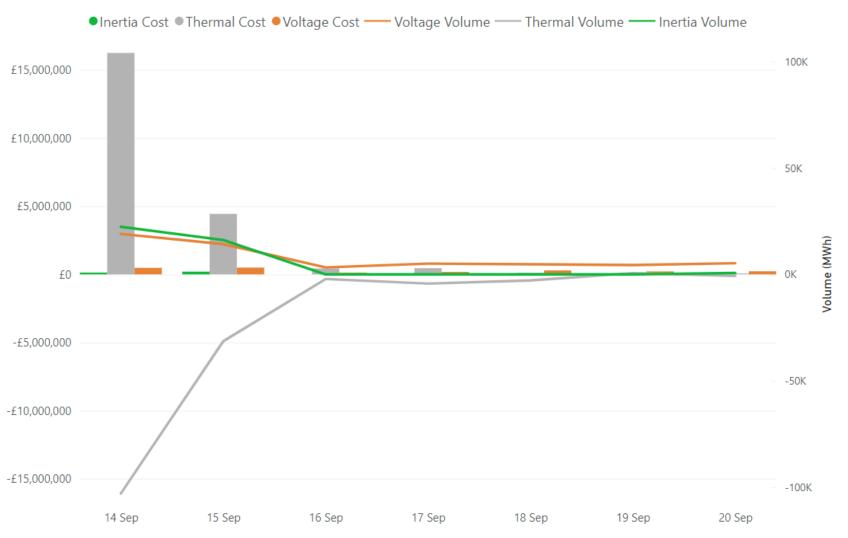
Share of Cost



14/09/2024 15/09/2024 16/09/2024 17/09/2024 18/09/2024 19/09/2024 20/09/2024

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ESO Actions | Constraint Cost Breakdown





£2.0M

Sum of Voltage Cost

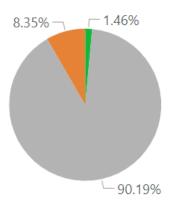
£353.5K

Sum of Inertia Cost

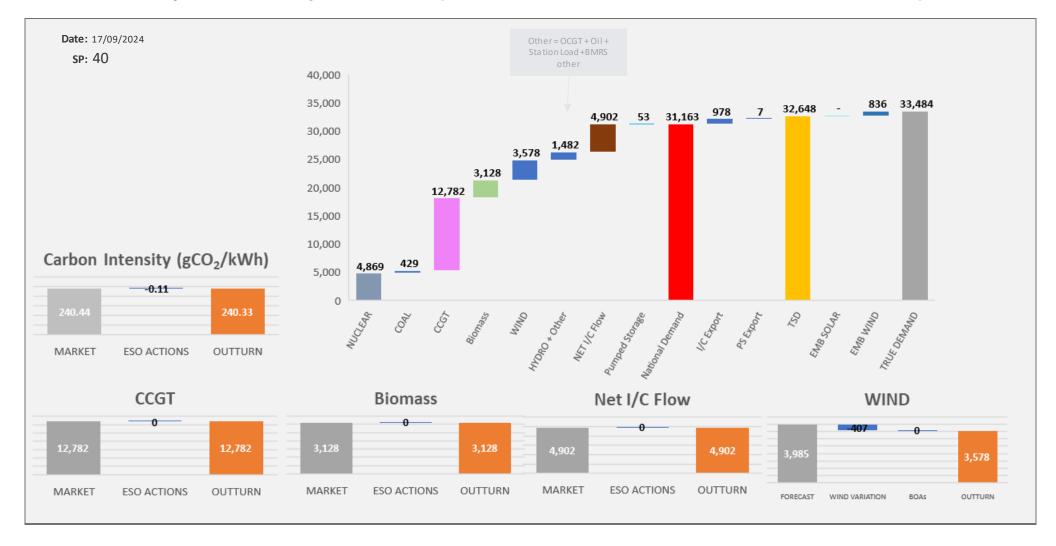
£21.9M

Sum of Thermal Cost

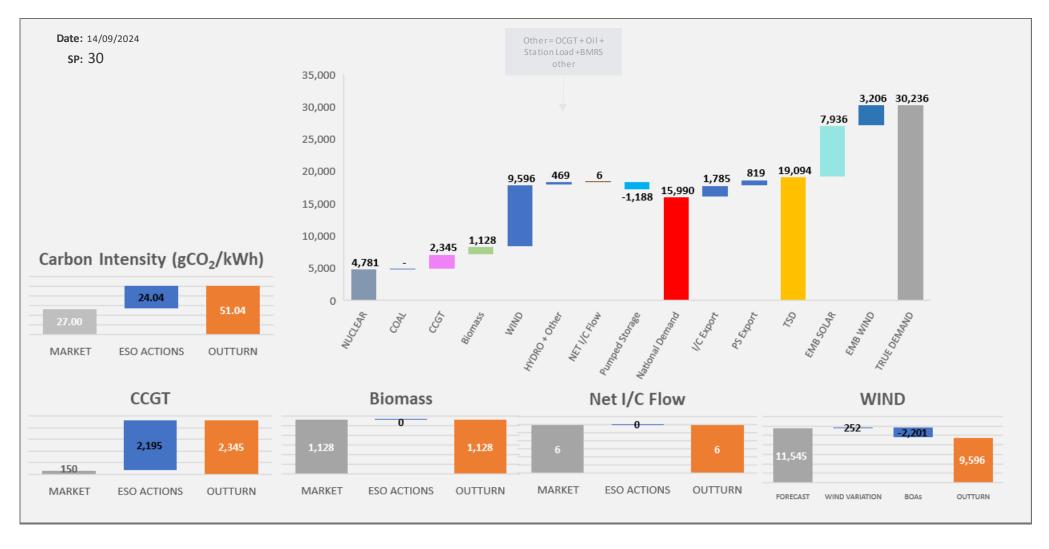
Share of cost



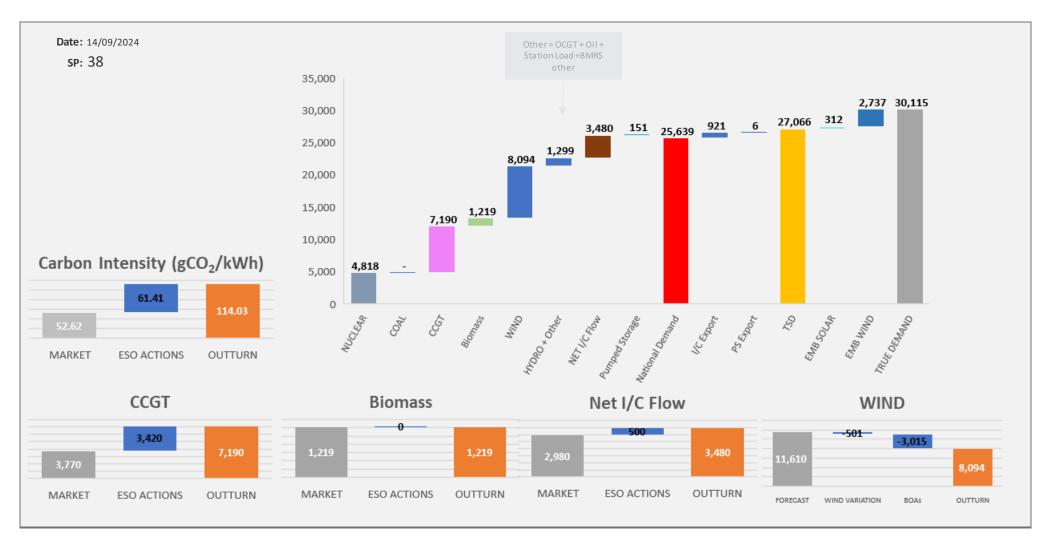
ESO Actions | Tuesday 17th September – Peak Demand – SP spend ~ £21k



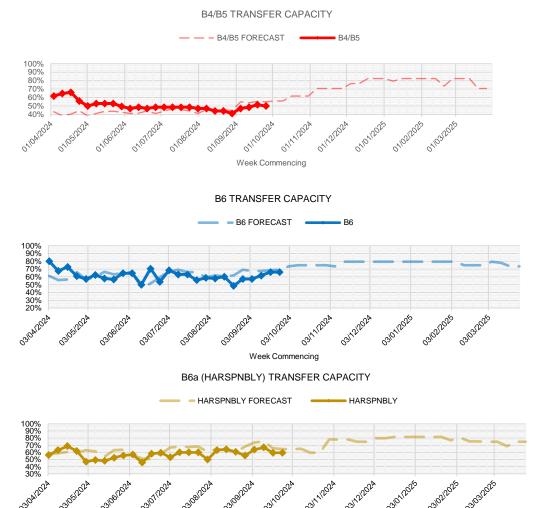
ESO Actions | Saturday 14th September – Minimum Demand – SP Spend ~ £329k



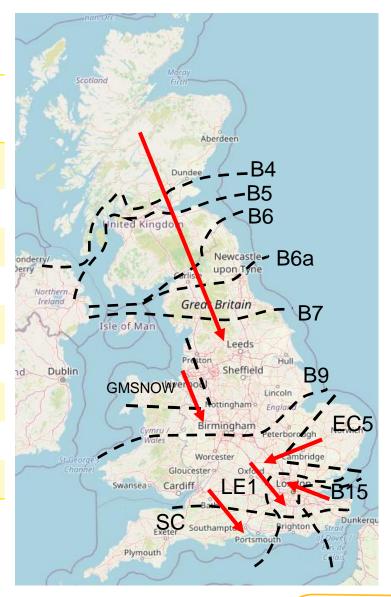
ESO Actions | Saturday 14th September – Highest SP Spend ~ £589k



Transparency | Network Congestion



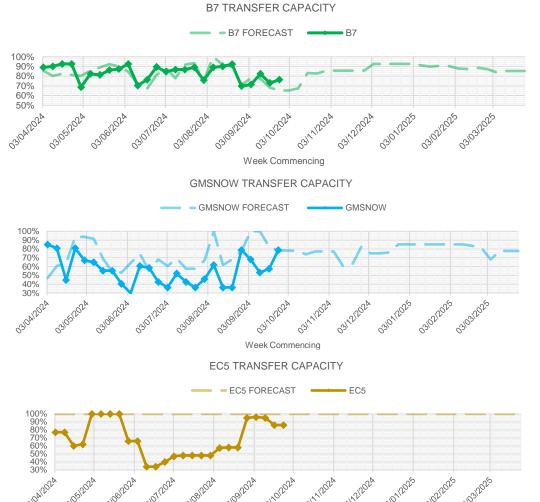
Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	50%
B6 (SCOTEX)	6800	66%
HARSPNBLY	8000	59%
B7 (SSHARN)	8325	76%
GMSNOW	4700	79%
EC5	5000	86%
LE1 (SEIMP)	8500	56%
B15 (ESTEX)	7500	69%
SC1	7300	100%



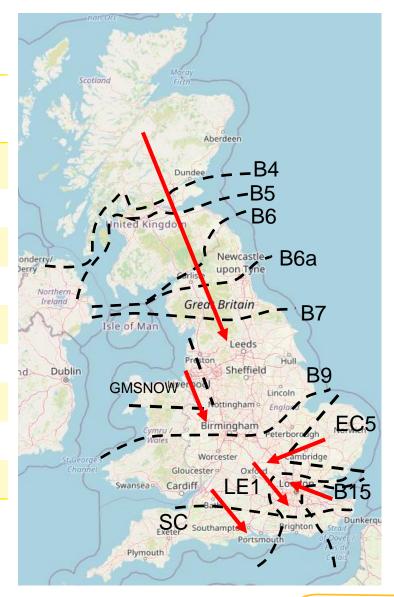
Day ahead flows and limits, and the 24-month constraint limit forecast are published on the ESO Data Portal: Constraints Management

(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



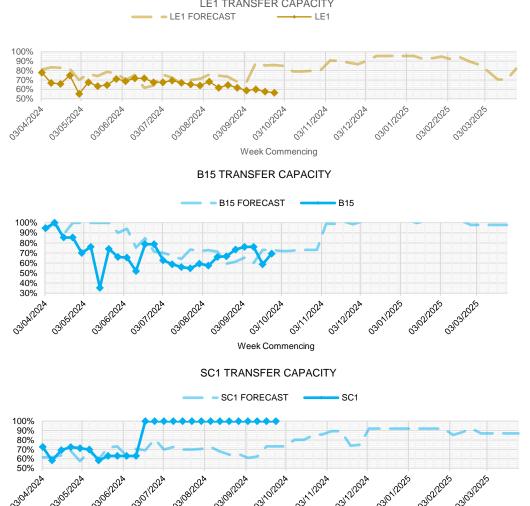
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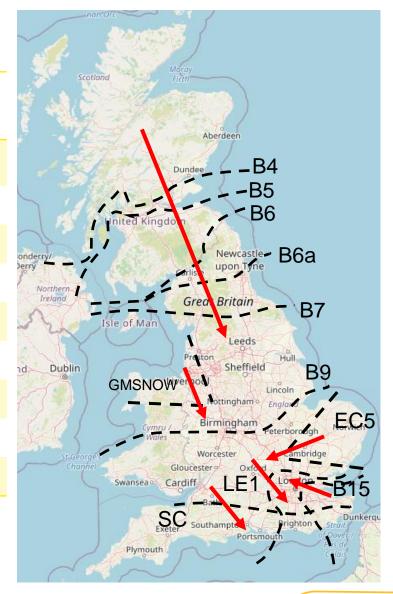
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Transparency | Network Congestion



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Previously Asked Questions

Q: We understand some wind farms are constrained due to oscillation issue - which type of constraints are they fall under and can you provide an estimated spend so far?

A: We are not currently constraining any wind farms due to oscillation issue. A group of defensive measures can be employed before, during or after an oscillation event to improve the system security.

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 NGESO. 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: 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 flexilbe units?

Q: Yesterday (10th Sept) the cashout price was set (a few times) by reversal actions on batteries. SP22 the cashout price was £68 with a NIV of -620 Mwh and vast majority of bid stack was negative. This seriously affects our ability to trade and market confidence. Please could you comment and suggest solution?

Q: Please explain how with similar demand and 4GW more wind, yesterday's (10th Sept) negative wind bids were all system tagged in the same regions, but today there have been energy neg priced bids since 0800hrs? You'd expect more constrained system to have more 'extreme' price dynamics vs less constrained system.

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
- 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.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

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



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: <u>Operational Transparency Forum | ESO (nationalgrideso.com)</u>
- 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.