A landscape photograph featuring snow-capped mountains in the background and a valley in the foreground. Several bright, glowing yellow light trails curve across the valley floor, suggesting a long-exposure shot of a road or a path. The sky is filled with dramatic, golden-hued clouds, indicating a sunrise or sunset.

# ESO Operational Transparency Forum

12 October 2022

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

# Introduction | Sli.do code #OTF

Please visit [www.sli.do](http://www.sli.do) and enter the code #OTF to ask questions & provide us with post event feedback.

We will answer as many questions as possible at the end of the session. We may have to take away some questions and provide feedback from our expert colleagues in these areas during a future forum. **Ask your questions early in the session to give more opportunity to pull together the right people for responses.**

To tailor our forum and topics further we have asked for names (or organisations, or industry sector) against Sli.do questions. If you do not feel able to ask a question in this way please use the email: [box.NC.Customer@nationalgrideso.com](mailto:box.NC.Customer@nationalgrideso.com)

These slides, event recordings and further information about the webinars can be found at the following location:

**Stay up to date on our new webpage:** <https://www.nationalgrideso.com/OTF>

## Regular Topics

Demand review  
Costs for last week  
Constraints  
Questions from last week

## Sign posts:

Winter Outlook 2022  
Demand Flexibility Service  
Dispatch Transparency ("Skip Rate") Event  
Firm Regulating Reserve webinar  
Winter contingency contracts

## Deep Dives:

# Transparency Forum Changes

From the 2<sup>nd</sup> of November your current calendar invite will stop working.

If you have downloaded this from the website please delete this and register using the following link

<https://subscribers.nationalgrid.co.uk/h/d/2A778732FDAC77ED>

After 2<sup>nd</sup> November, everyone registered on this list will receive a direct calendar invitation allowing us to manage event changes more appropriately and keep you updated on event status. Only those registered will be able to join the event but it will remain open to everybody to register, please use business rather than personal emails for registration.

**Please send us questions in advance**

Today we are trialling the use of advance questions: <https://forms.office.com/r/k0AEfKnai3>

In order to ensure we effectively respond on any topic please submit questions by 12:00 on Monday 10<sup>th</sup> for priority, we will endeavour to answer all questions but may still need to take some responses away.

Sli.do will still continue to be used for live Q&A following the weekly slides being presented

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

Advance Questions



## Future deep dive/ response topics

### Coming soon:

- Deep dive into ESO BM actions on 1 October (high renewables, weekend demand). **02 November 2022**

### Items we have taken away and will come back to this forum on in the future

REMIT obligations on ESO

Feedback welcomed on our proposed deep dive topics

## Winter Outlook & Seminar – 6 October

We published our Winter Outlook Report for Winter 2022 on 6 October.

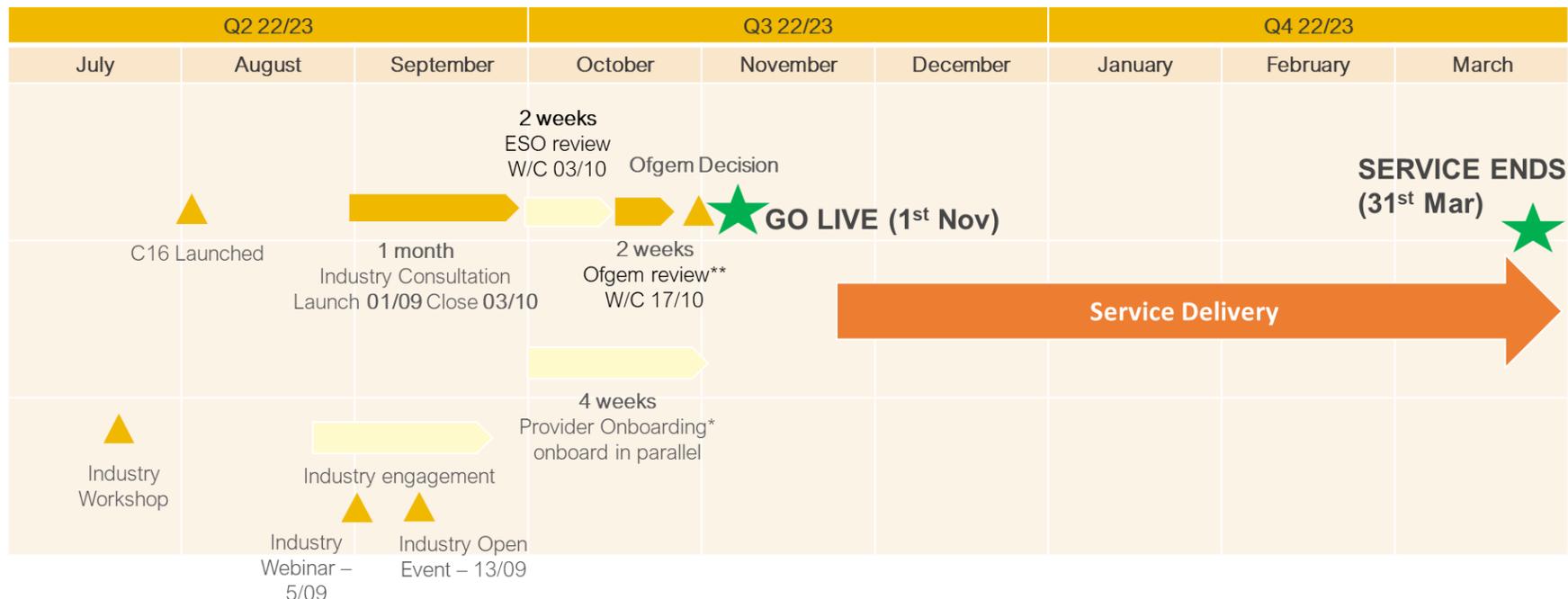
Ofgem hosted a joint seminar with us (National Grid ESO) and the Gas System Operator (GSO) to present views on security of supply for the winter ahead.

The winter outlook publication can be read on our website:

[Winter Outlook | National Grid ESO](#)

# Demand Flexibility Service Update

- On 1 September we launched a consultation on a new Demand Flexibility Service. The full consultation on terms and conditions for the service can be found on our website [EBR Article 18 Demand Flexibility Terms and Conditions | National Grid ESO](#)
- The consultation closed on Monday 3 October** and we had 20 responses from across industry. All feedback will be reviewed before being submitted to Ofgem.
- The consultation will then be reviewed by Ofgem and once approved all details will be published on the National Grid ESO website <https://www.nationalgrideso.com/industry-information/balancing-services/demand-flexibility>



If you would like to speak to the Demand Flexibility Service team or if you would like to be included on our mailing list, please email [DemandFlexibility@nationalgrideso.com](mailto:DemandFlexibility@nationalgrideso.com)

# Dispatch Transparency ("Skip Rate") Event – Thursday 20 October

We would like to invite you to Wokingham for a transparent discussion about how we dispatch and "Skip Rates".

The event will take place in person at our Wokingham offices on **Thursday 20 October**. Lunch will be provided and a visit to the control room viewing gallery will be organised.

A Skip refers to an event when a BOA is instructed at a higher cost than an alternative option. The ESO strives to have zero skip rates, unless not preventable. We would like to invite you to discuss our dispatching process (including some examples) as well as the dispatch transparency data available on our portal. This event will also be an opportunity to share your questions regarding skip rates.

We very much look forward to seeing you at this event.

## Key information

**Date:** Thursday 20 October

**Venue:** National Grid ESO  
Wokingham Office

**Time:** 10:00 – 14:30

**Signup link:**

<https://forms.office.com/r/VrcCkVz2th>



## Balancing Reserve\* Webinar – Thursday 20 October

We are hosting a webinar to provide further information on our plans to procure **Regulating Reserve** in a firm capacity at day ahead (\*provisionally we are proposing to call this product Balancing Reserve, it has been called Firm Regulating Reserve in past slides).

This follows on from a brief presentation at our Autumn Markets Forum event.

Agenda:

- Service Design
- Timeline
- Next steps
- Q&A

The webinar will take place over teams, please follow the link to join.

### Key information

**Date:** Thursday 20 October

**Venue:** Teams

**Time:** 11:00 – 11:50

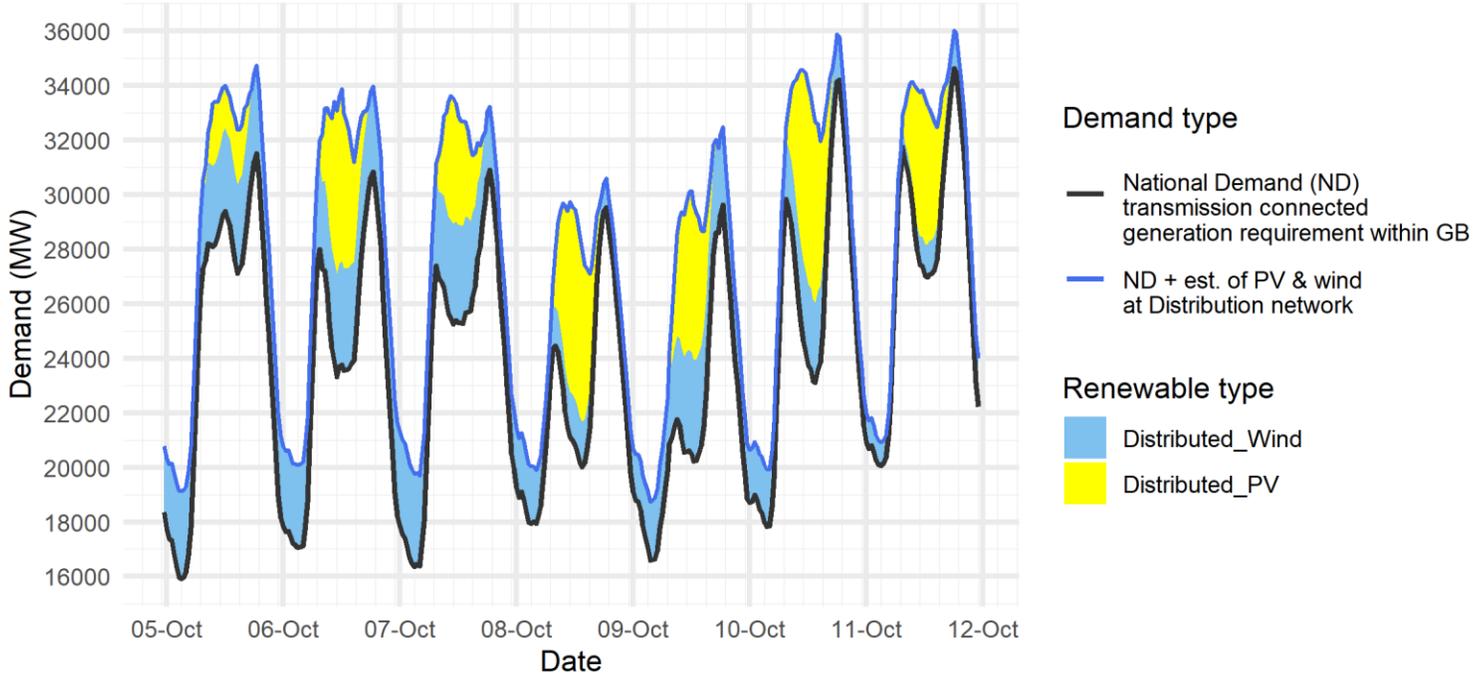
**Link:**

[Link here](#)

Click to join the webinar

# Demand | Last week demand out-turn

ESO National Demand outturn 05-11 October 2022



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

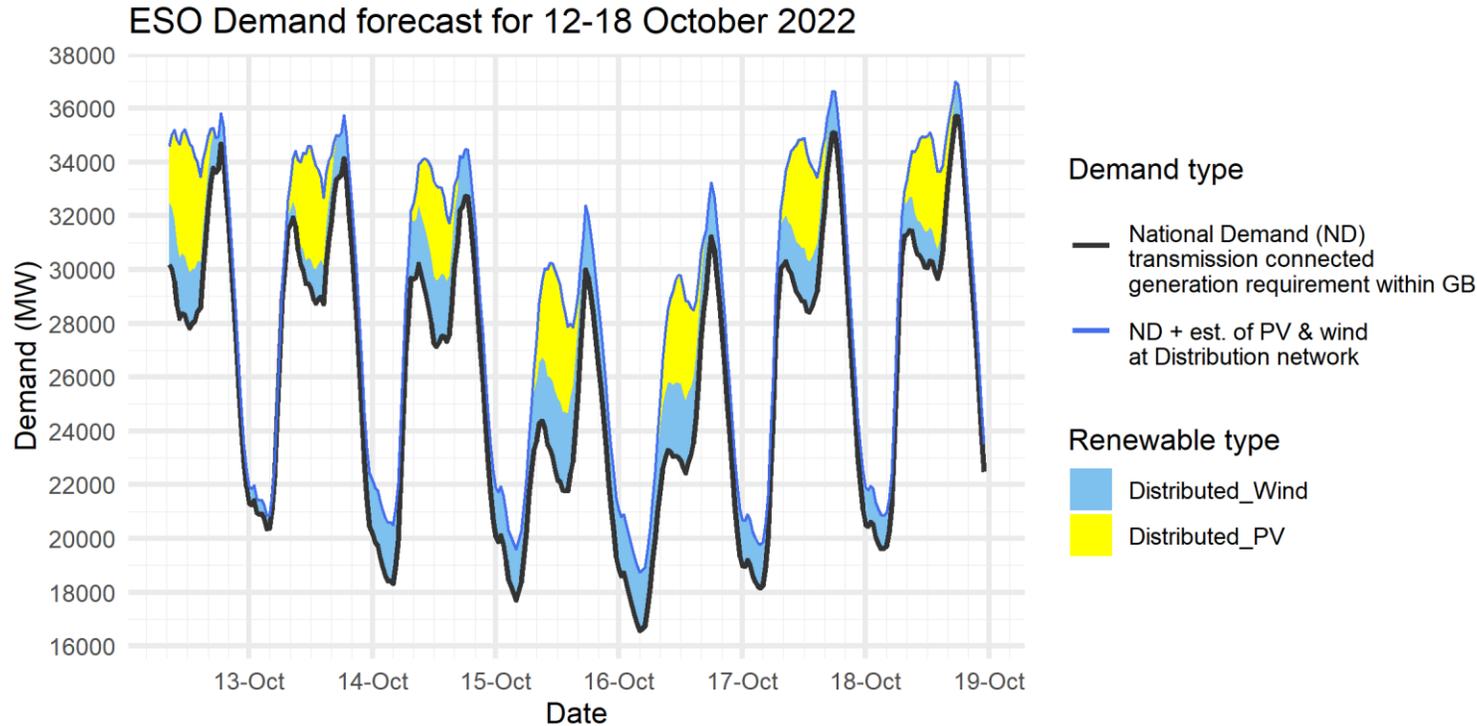
ND values **do not include** export on interconnectors or pumping or station load

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](#)

Date	Forecasting Point	FORECAST (Wed 05)		OUTTURN	
		National Demand (GW)	Dist. wind (GW)	National Demand (GW)	Dist. wind (GW)
05 Oct	Evening Peak	31.6	3.3	31.5	3.2
06 Oct	Overnight Min	16.4	3.0	17.1	3.0
06 Oct	Evening Peak	31.7	3.1	30.8	3.1
07 Oct	Overnight Min	16.5	3.3	16.4	3.4
07 Oct	Evening Peak	31.0	2.9	30.9	2.3
08 Oct	Overnight Min	16.8	2.4	17.9	2.0
08 Oct	Evening Peak	30.4	1.4	29.5	1.1
09 Oct	Overnight Min	16.9	1.7	16.6	2.1
09 Oct	Evening Peak	29.6	2.8	29.6	2.9
10 Oct	Overnight Min	16.9	2.3	17.8	2.1
10 Oct	Evening Peak	34.1	1.8	34.2	1.6
11 Oct	Overnight Min	19.1	1.4	20.1	0.9
11 Oct	Evening Peak	33.8	1.9	34.6	1.4

# 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.

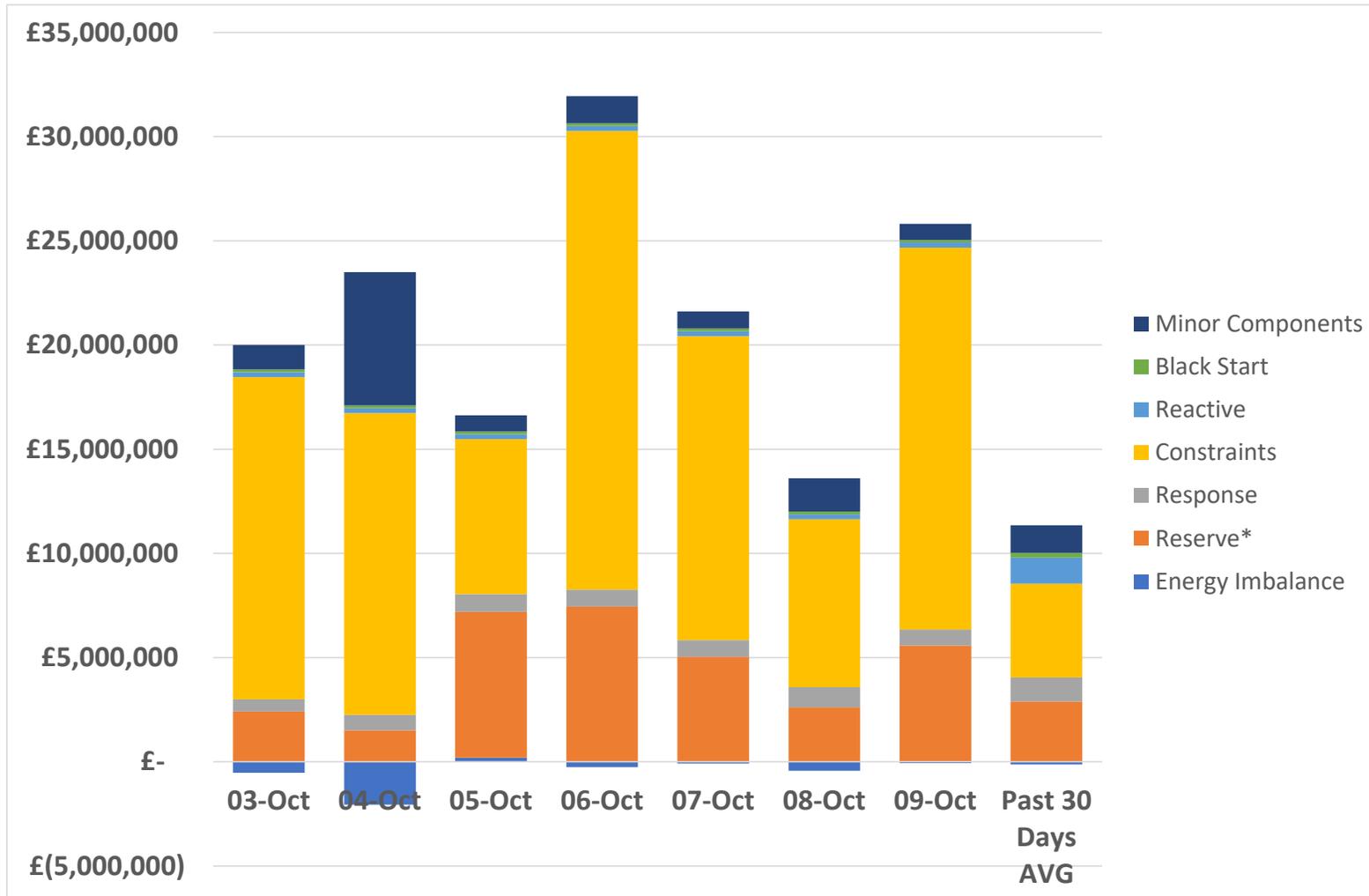
ND values **do not include** export on interconnectors or pumping or station load

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 12 Oct)	
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)
12 Oct	Evening Peak	34.7	1.1
13 Oct	Overnight Min	20.4	0.5
13 Oct	Evening Peak	34.1	1.6
14 Oct	Overnight Min	18.3	2.2
14 Oct	Evening Peak	32.7	1.8
15 Oct	Overnight Min	17.7	1.9
15 Oct	Evening Peak	30.0	2.4
16 Oct	Overnight Min	16.6	2.2
16 Oct	Evening Peak	31.2	2.0
17 Oct	Overnight Min	18.2	1.6
17 Oct	Evening Peak	35.1	1.6
18 Oct	Overnight Min	19.6	1.2
18 Oct	Evening Peak	35.7	1.0

# ESO Actions | Category costs breakdown for the last week

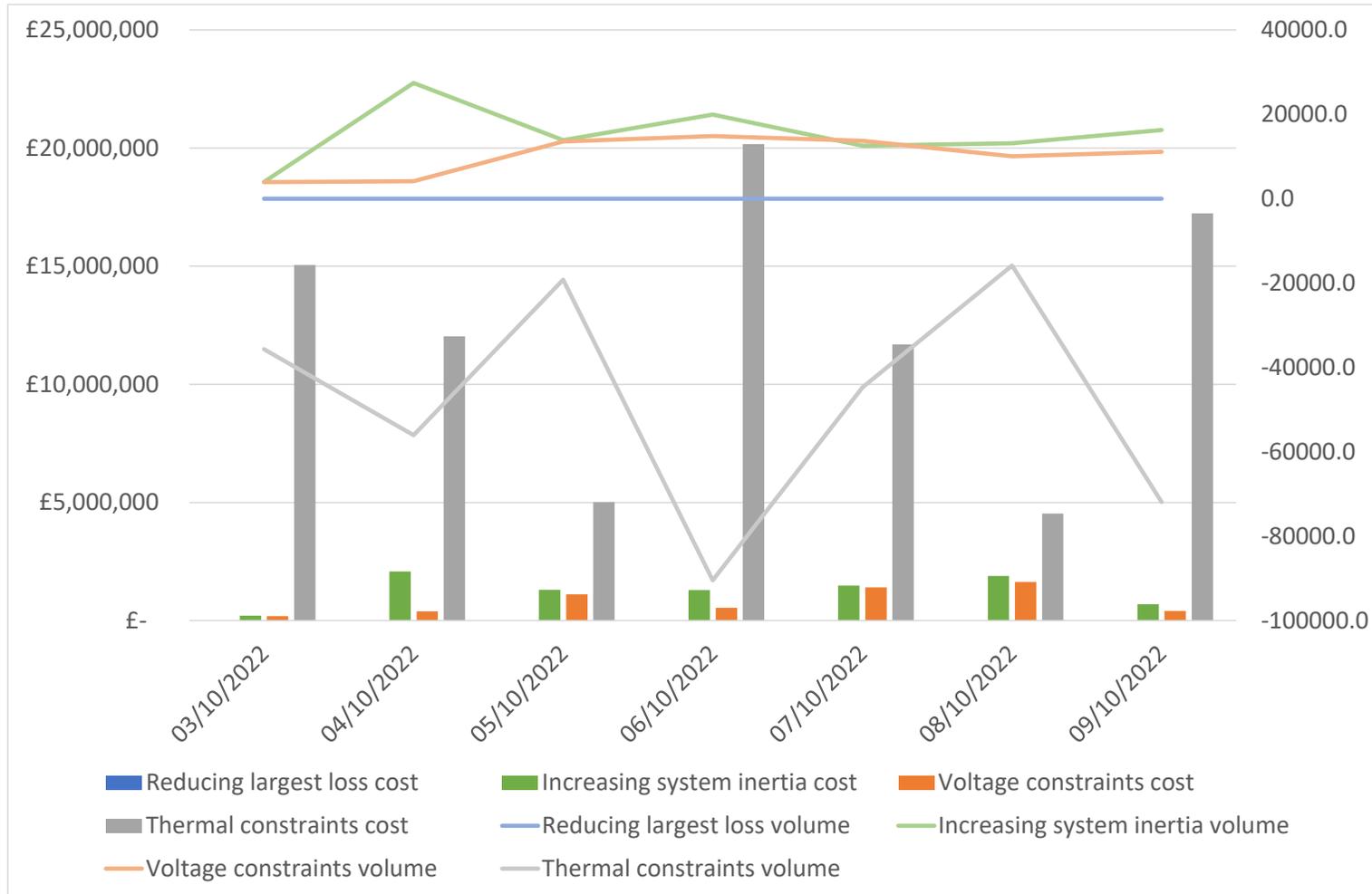


Date	Total (£m)
03/10/2022	19.5
04/10/2022	21.4
05/10/2022	16.6
06/10/2022	31.7
07/10/2022	21.5
08/10/2022	13.2
09/10/2022	25.8
Weekly Total	149.7

Constraints costs (mostly thermal) were the key cost component throughout the week due to high wind output.

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

# ESO Actions | Constraint Cost Breakdown



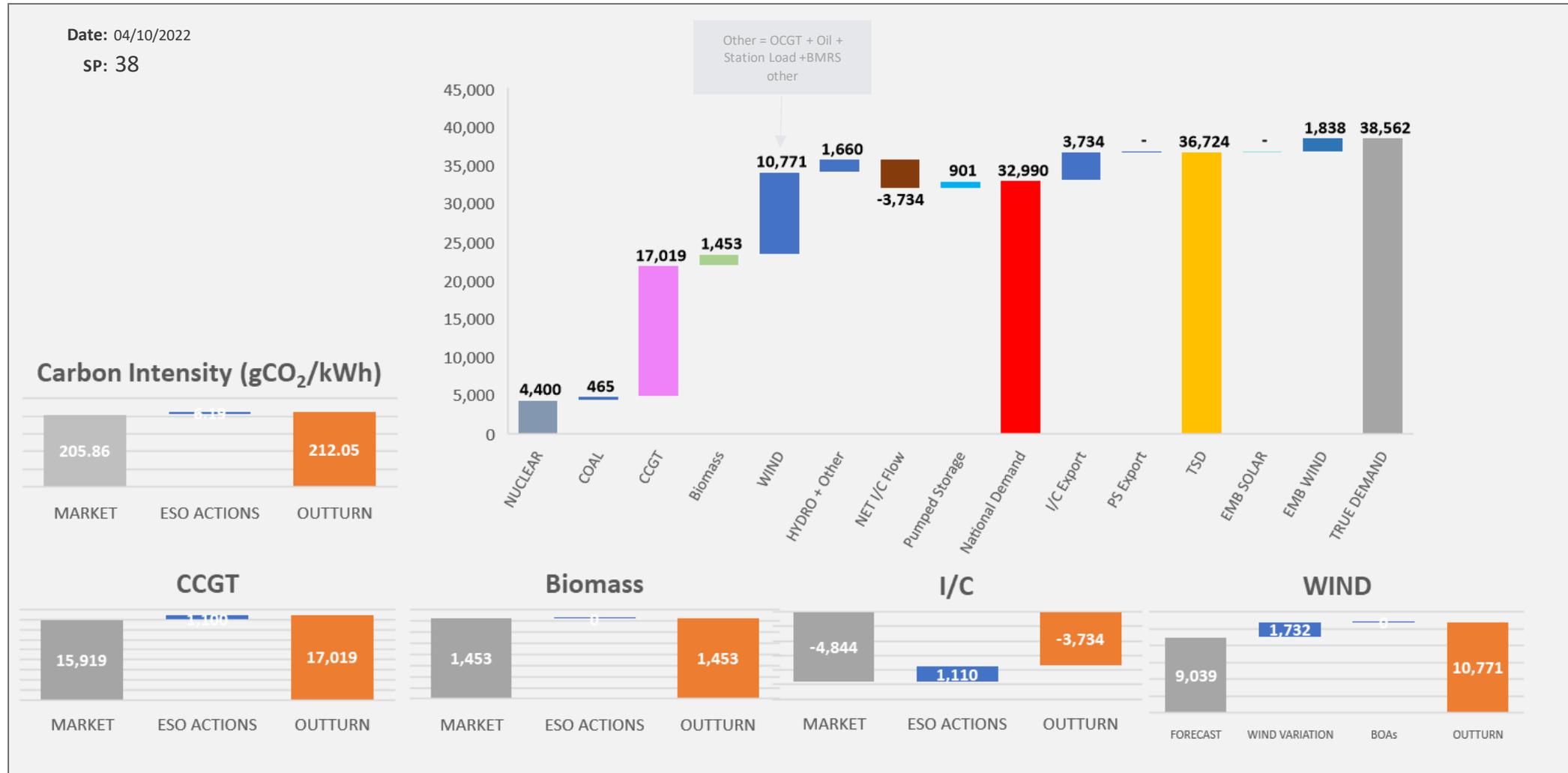
**Thermal – network congestion**  
 Actions required to manage Thermal Constraints throughout the week.

**Voltage**  
 Intervention to manage the voltage levels throughout the week.

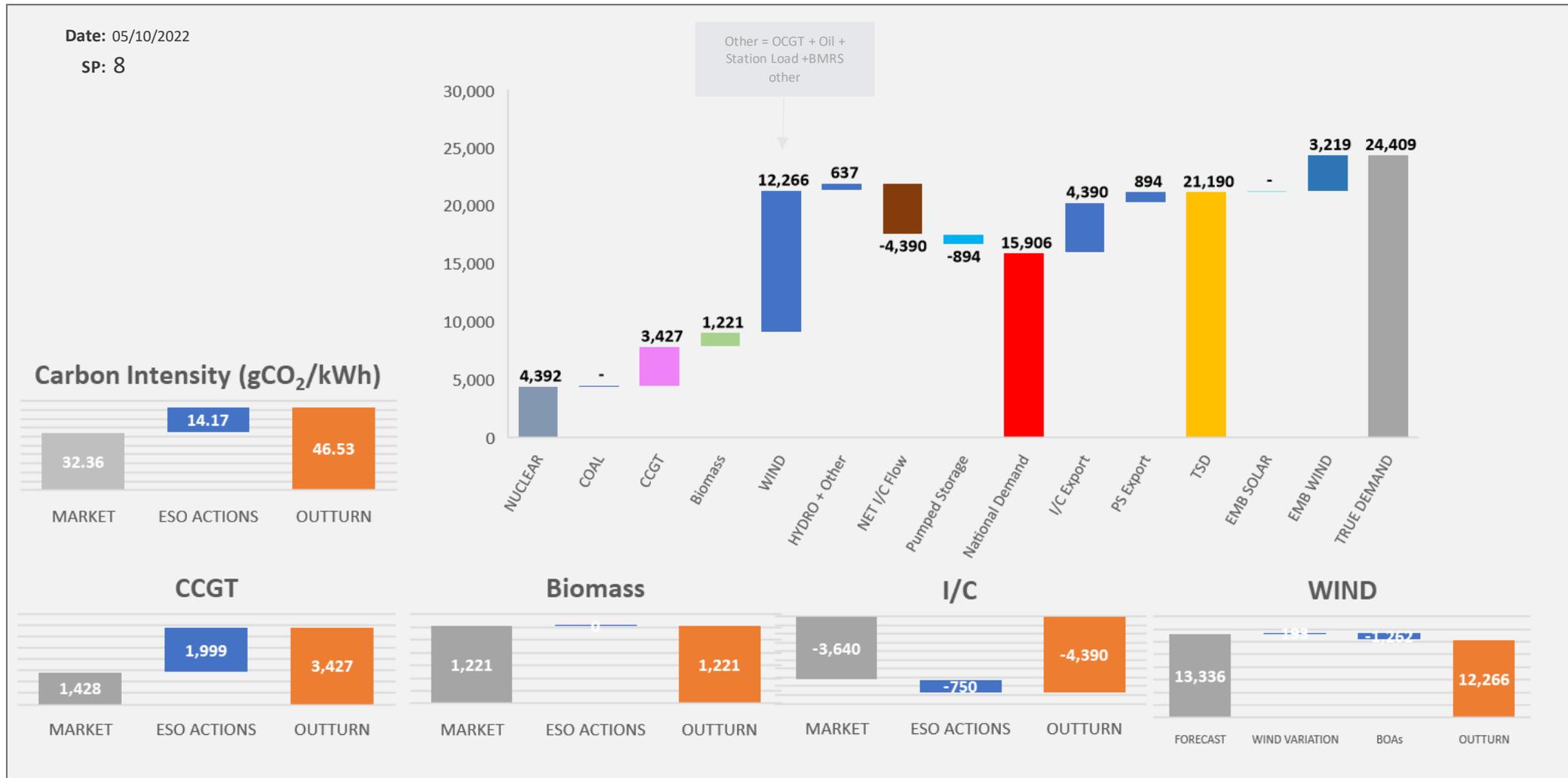
**Managing largest loss for RoCoF**  
 No Intervention required to manage largest loss.

**Increasing inertia**  
 Intervention required to manage system inertia throughout the week.

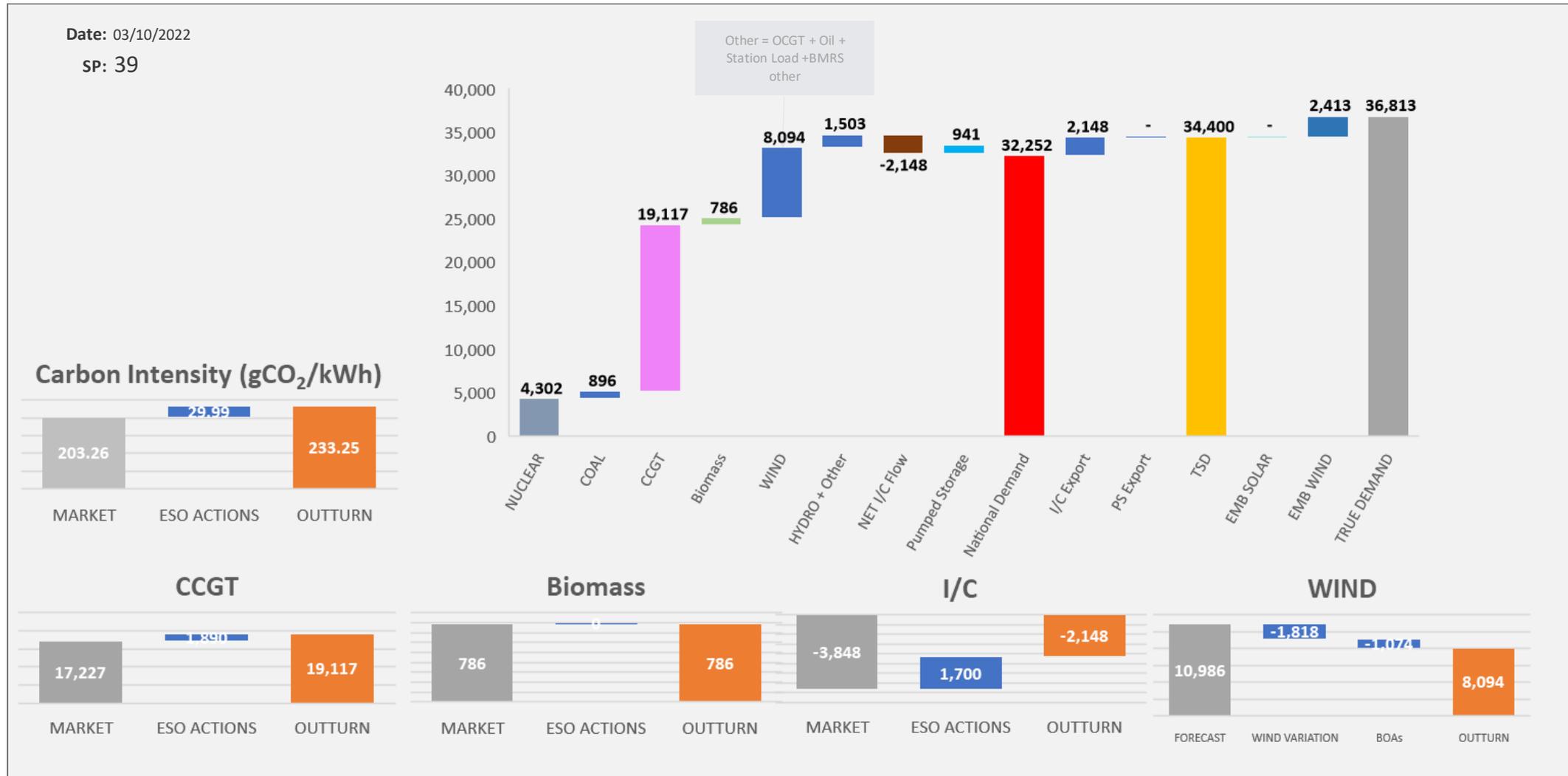
# ESO Actions | Tuesday 04 October – Peak Demand – SP spend ~£43k



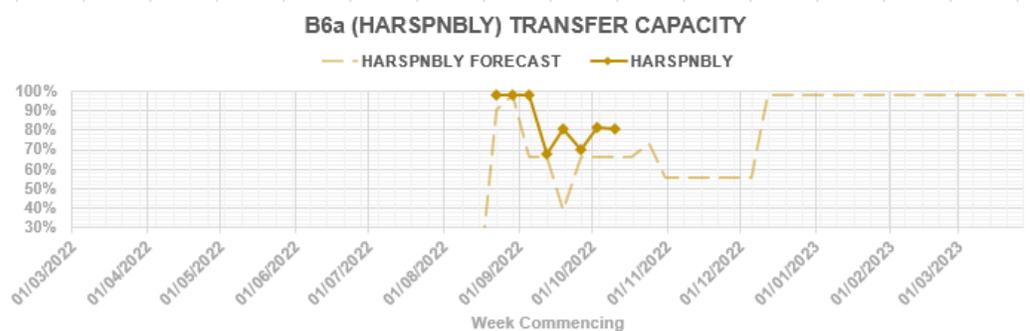
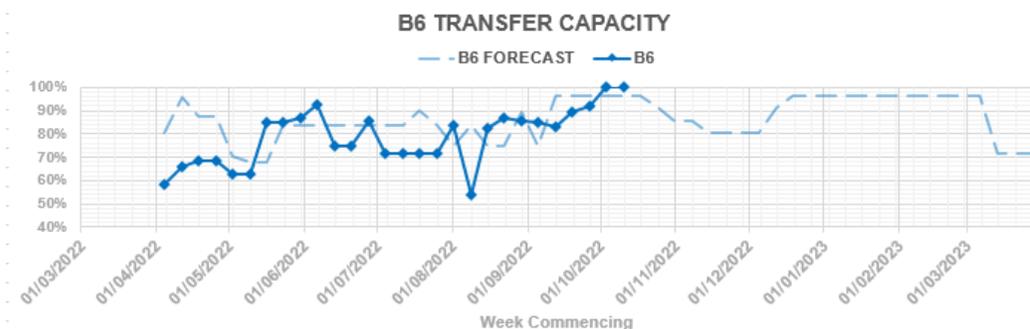
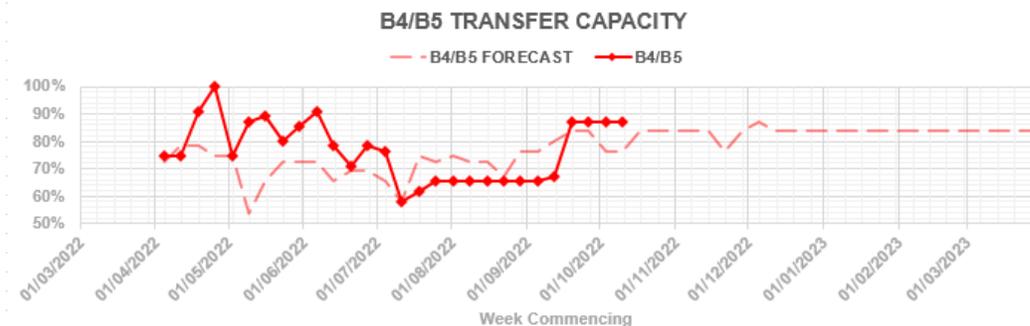
# ESO Actions | Wednesday 05 October – Minimum Demand – SP Spend ~ -£362k



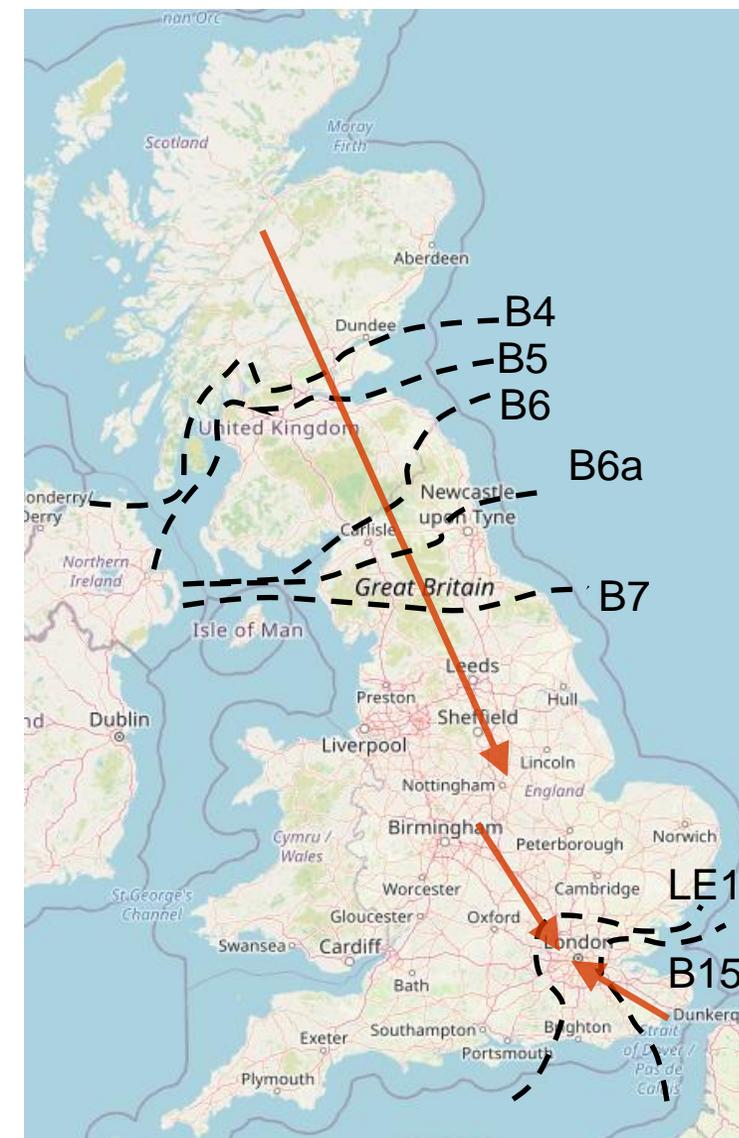
# ESO Actions | Monday 03 October – Highest SP Spend ~£907k



# Transparency | Network Congestion



Boundary	Max. Capacity (MW)
B4/B5	2750
B6	5600
B6a	5850
B7	8500
LE1	8250
B15	4500

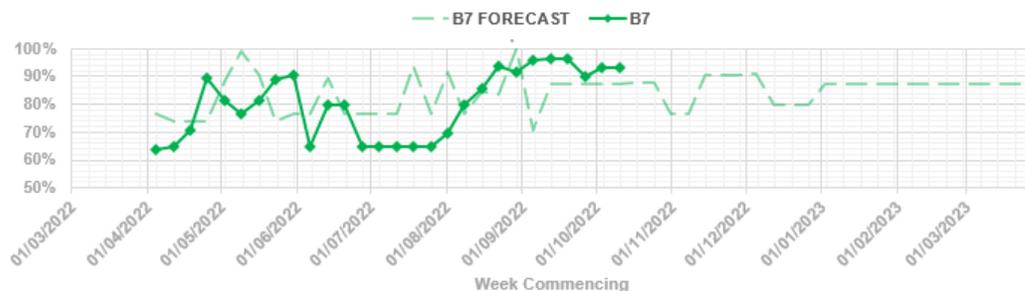


Day ahead flows and limits, and the 24 month constraint limit forecast are published on the ESO Data Portal:

<https://data.nationalgrideso.com/data-groups/constraint-management>

# Transparency | Network Congestion

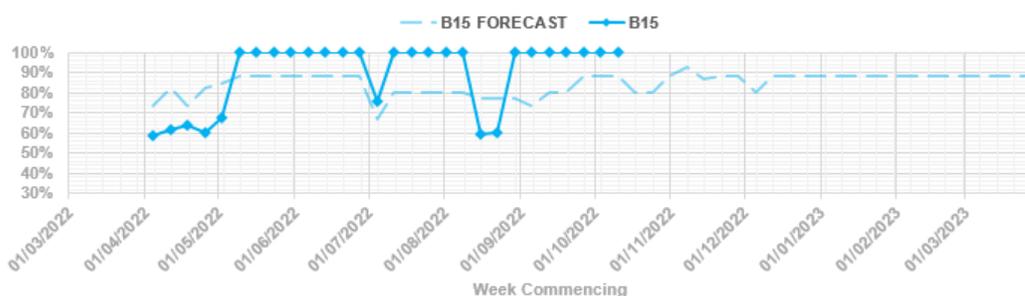
**B7 TRANSFER CAPACITY**



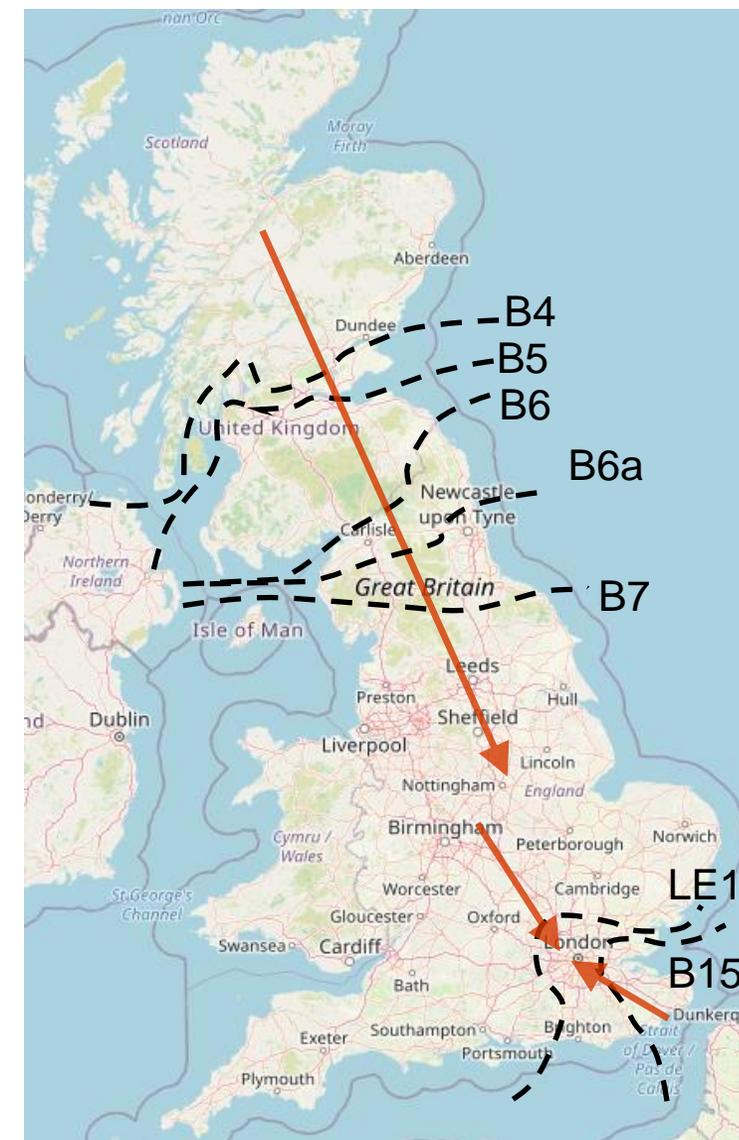
**LE1 TRANSFER CAPACITY**



**B15 TRANSFER CAPACITY**



Boundary	Max. Capacity (MW)
B4/B5	2750
B6	5600
B6a	5850
B7	8500
LE1	8250
B15	4500



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

<https://data.nationalgrideso.com/data-groups/constraint-management>

# Questions outstanding we are still working on

Sli.do code #OTF

Q: The Irish ICs over July (Moyle basically all July, East-West 10th July) generated to a nomination profile completely away from their PNs. This is a semi-regular occurrence since ISEM. After several years why are PNs still not submitted correctly for Irish ICs?

## Request for clarification:

Q: You said a few weeks ago that this was a gas crisis not a capacity procurement crisis. This winters spark is £110-that is 21% of the winter contract value. Is it not capacity underprocurement? The system I understand is only secured for a 1 in 3 weather event or am I wrong where it was higher b4

Please could you provide some clarity on this question. The team can be contacted at [box.NC.Customer@nationalgrideso.com](mailto:box.NC.Customer@nationalgrideso.com), please quote this question and OTF in your email. We will close this question next week if no further clarification received.

## Answered questions from previous weeks

Q: Ref Q @ top of slide 25; could someone please explain exactly what “a requirement from ESO” where “such requirement being under ESEC” per footnote 3 of 2022 Direction is? Also, means ESEC has to be activated 1st before requirement for coal applies - otherwise this Direction does not legally apply.

ESEC covers the provision for a long-term generation shortfall requiring restrictions on consumption of electricity. This code is owned by BEIS and is separate to the winter contingency contracts

# Answered questions from last week

Sli.do code #OTF

Q: On 1/10 Ratcliffe on Soar 2 was activated at 8000£/MWh even though the wind level was above 12 GW and on a Saturday. Can you comment on the reason for the high activation?

Q: it would be good to understand why there was £5m of inertia costs on 1st Oct Also, why was the B4/5 capacity only at 60% - were they for outages? And if yes, were the outages planned or unplanned?

We will be running a deep dive on our actions on Saturday 1 October in November.

Q: re the BSUoS question: DISBSAD are part of BSUoS .: I think the question was will NG be letting these £99999/MWh BSAD trades that will solve the Settlements calc of cashout flow in to BSUoS or will you be removing that onward flow?

There will be no charges input to BSUoS as a result of this data. This is purely to correct the calculation of cashout.

Q: Yesterday morning T\_FINL-1 appeared to receive erroneous instructions from Grid. They appeared to instruct the unit to come well above its MEL to 200MW with an incomplete profile. These were then reversed by Grid. Do we expect these Activations to be manually removed in subsequent settlement runs?

This is currently being investigated and any necessary post event adjustments for settlement runs will be requested and processed.

Q: NG have recently had a fundamental change to their buy curve for DC on particular days. Is it possible to expand on why the overholding was so much larger these days?

Earlier this year we held a response procurement webinar which included details of the changes we made to our buy curve in April, which can be found here [https://players.brightcove.net/867903724001/default\\_index.html?videoid=6307042548112](https://players.brightcove.net/867903724001/default_index.html?videoid=6307042548112)

Please review and if this does not address the question, please provide the specific days in question so we can investigate further.

# Advance Questions

12 October 2022

## AQ 1 – Interconnector obligations in CM

**Q: In a CM event where the interconnectors are flowing out of the UK what are the mechanics for the interconnectors to meet their CM obligations and flow to the UK at their de-rated capacity given the interconnectors cannot trade directly with their customers and SOs?**

Trading on interconnectors is one of the tools we use to manage flows on interconnectors. We trade on interconnectors to meet our requirements of operating the system in real-time. We do not trade on interconnectors to get out of a CM notice event or to enable interconnectors to meet their CM obligations.

A CM notice is not an operational tool used by our control room. A CM notice is intended to notify capacity providers with CM agreements that they will be expected to deliver their capacity for the relevant settlement period if the notice remains in place, or potentially face penalties in line with the CM Rules and Regulations. It is not the responsibility of the ESO to either deliver or advise on how capacity market providers deliver in line with their agreements; this is the responsibility of the CM providers.

Interconnectors are eligible to participate in the Capacity Market. This is a matter of policy for Government.

## AQ 2 – Generator breakdown rates in Winter Outlook

Q: How are the breakdown rates calculated? Is that based on 2-14 OC2 data vs Outturn availability?

Breakdown rates are calculated based on the level generator units offer in real time against their capacity, during peak demand periods of each winter (taking any pre-notified OC2 planned outages out of the data). Peak demand periods are defined as the highest 20 per cent of demand half hours, during November to February, between 10am and 8pm Monday to Thursday. The forecast breakdown rate is the average of the past 3 winters.

## AQ 3 – Skip Rate event

Q: Could you please provide a link for signing up to the "Skip Rate" event?

<https://forms.office.com/r/VrcCkVz2th>

## AQ 4 – Publication of NTC data

Q: At last week's forum the publication of NTC data for a number of interconnectors / countries on the ESO Data Portal was highlighted. There was no mention of publishing this data for Irish interconnectors. Do you plan to publish this data in future?

NGESO does not currently use capacity limits on the Irish borders and therefore there is no data to publish. If these are implemented in future, the data will be published in-line with the rest of the interconnectors.

## AQ 5 – Wind Farm data in BMRS

Q: The power park modules spreadsheet on [www.bmreports.com](http://www.bmreports.com) claims to list all windfarms that have operational metering, i.e. are "visible" to National Grid (and therefore represents all the windfarms included in National Grid's wind forecasts and outturns). But is the process for updating this spreadsheet actually functioning as numerous recently constructed large wind farms many of which have NGC BMU IDs are missing from this spreadsheet? Capacities listed for some of the wind farms in the spreadsheet are also incorrect.

Also, at what point do you start operationally metering and forecasting the output of commissioning wind farms - as soon as meter readings become available or only once the wind farm is fully commissioned. For example, Seagreen and South Kyle are commissioning at present so how are you treating these farms in your wind forecasts

Answer:

- 1) The process to update the spreadsheet is an ad hoc one as we hold our own data for wind forecasting purposes. This means it isn't always updated with the latest information. We source a lot of the information in the report from Renewable UK's Wind Energy Database so this is a good place to direct your queries.
- 2) We track wind farms that are commissioning via our generator compliance teams and once they have generated their first MW we maintain an operational capacity of the wind farm in our forecasting tools that is gradually increased as more and more of the site comes online. All of our forecasting is aggregated together to create the total GB metered wind forecast which is available at this [link](#). We estimate that around 30% of GB wind capacity is unmetered (from an operational metering perspective) and these sites are very difficult to include in our forecasting.

## AQ 6 – Coal contracts and cash out

Q: On your last OTF it was mentioned that Coal Contract Dispatch via Balancing Mechanism (BM) or trade with a price of £0/MWh and system flagged. Post event, ESO will withdraw BOA and replace through BSAD with price of £99,999/MWh. Can you please confirm if Cash Out prices published on Elexon, on the day, will have this amendment applied or whether any coal volume will still be priced at £0 in the calculation? ( potentially causing misleading within day cash out information )

Answer: We expect that if the service is used it will take a period of time for the BSCP18 process to remove the £0 priced BOA. The “live” price at the time of instruction may therefore not be as accurate as it could contain the £0 priced BOA for a short period of time. We will inform the market with a warning message on impacted settlement periods and we are looking at ways to ensure that the prices are updated as quickly as possible.

## AQ 7 – Order of Actions

**Q: Is there any point in the list of ESO order of actions in which ESO will curtail export via interconnectors? If so, could you please specify under which category (everyday, enhanced, emergency) such an action will be categorized as and please also specify under which specific action such curtailment would take place?**

Answer: We have published our order of action on the ESO website <https://www.nationalgrideso.com/document/268116/download>

Our first actions on interconnectors would be to trade their position to reduce exports. This is an everyday action. These trades are not considered as curtailing the interconnector export.

If everyday actions are insufficient, then we would need to take enhanced actions. One such enhanced action is to plan to enact emergency assistance from a connected SO via the interconnectors.

## AQ 8 – MBSS reporting of Coal Contracts

**Q: In what categories will the costs of the coal contracts be reported in the Daily Costs report and the MBSS?**

Answer: The cost of the coal contracts will appear under 'BM Black Start Other' costs in the Daily Costs report and the MBSS.

## AQ 9 – BSUoS query

Q: Could you please let us know why the new BSUoS charges data is not available from 5th Oct to 25th October?

Answer: We will come back to this question at a future forum.

# 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](mailto:box.NC.Customer@nationalgrideso.com)

**slido**



## **Audience Q&A Session**

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

