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

# ESO Operational Transparency Forum

26 October 2022

nationalgridESO

# Introduction | Sli.do code #OTF

Please visit 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

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

System events
Demand review
Costs for last week
Constraints
Questions from last week

## Sign posts:

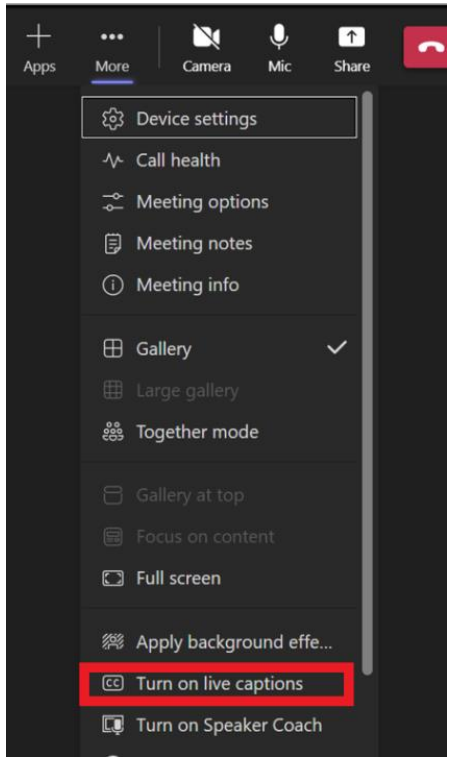
Dispatch Transparency ("Skip Rate") Event - Delayed

Firm Regulating Reserve webinar

# Live Captioning

To enable live captioning in Microsoft Teams:

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



# Transparency Forum Changes

**From the 2nd 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 2nd 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 31st 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

Deep dive on Winter Order of Action on 9th November

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

# 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
- On **Friday 14 October** we submitted all the proposed changes to the DFS Service Terms and related documentation, alongside a summary of the Consultation Responses and our commentary to Ofgem for review
- **Last week** we published the key changes we have made as part of the consultation based on Stakeholder Feedback as well as an update on our requirements and Guaranteed Acceptance Price (GAP). You will be able to view this on our 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

# Dispatch Transparency ("Skip Rate") Event – Delayed

Due to a number of events clashing we've made the decision to further postpone the skip rate event.

We will let you know about new date in the near future.

Thank you for your understanding.

# System Events

## Winter Contingency Service (coal)

In accordance with the contingency service contract terms, West Burton A is undertaking planned proving runs this week.

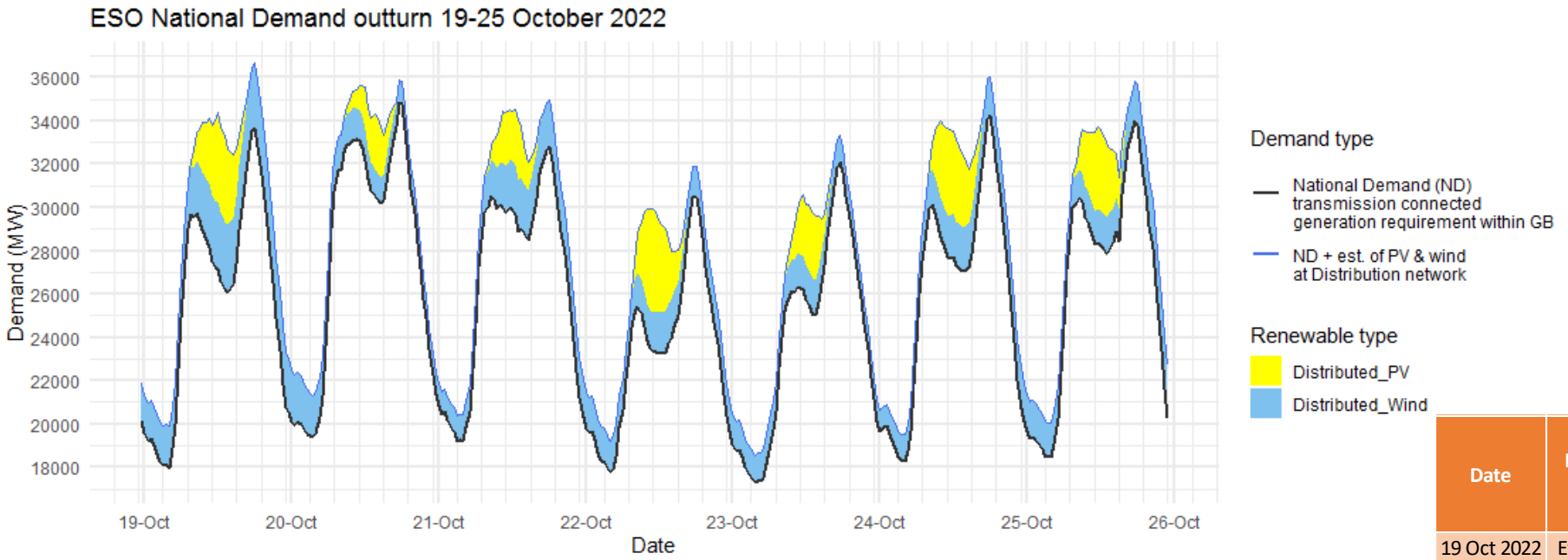
A ‘market’ message was issued via the BRMS at 07:02 on Monday 24 October to inform the market of the first run which took place between 07:00 and 19:00 on Tuesday 25 October. A follow up message was issued at 19:04 to confirm the test had ended

A ‘market’ message was issued via the BRMS at 07:16 today 26 October to inform the market of the second run planned to take place between 07:00 and 19:00 tomorrow 27 October.

We are working with EDF and Elexon to remove the related actions from settlement by raising BSCP18.

For the avoidance of doubt, where NGESO instructs any contracted unit, either for initial proving runs or service instructions, across all three contracted sites (EDF, Drax and Uniper) NGESO will inform the market by issuing a ‘market message’ via the BMRS.

# Demand | Last week demand out-turn




| | | FORECAST (Wed 19 Oct) | | OUTTURN | |
|---|---|---|---|---|---|
| Date | Forecasting Point | National Demand (GW) | Dist. wind (GW) | National Demand (GW) | Dist. wind (GW) |
| 19 Oct 2022 | Evening Peak | 33.2 | 2.9 | 33.7 | 3.0 |
| 20 Oct 2022 | Overnight Min | 18.8 | 2.1 | 19.4 | 1.9 |
| 20 Oct 2022 | Evening Peak | 34.8 | 0.8 | 34.8 | 1.1 |
| 21 Oct 2022 | Overnight Min | 19.0 | 1.1 | 19.2 | 1.3 |
| 21 Oct 2022 | Evening Peak | 32.1 | 2.0 | 32.8 | 2.2 |
| 22 Oct 2022 | Overnight Min | 17.5 | 1.5 | 17.7 | 1.5 |
| 22 Oct 2022 | Evening Peak | 30.9 | 0.9 | 30.5 | 1.4 |
| 23 Oct 2022 | Overnight Min | 17.4 | 1.0 | 17.3 | 1.3 |
| 23 Oct 2022 | Evening Peak | 31.0 | 1.9 | 32.1 | 1.2 |
| 24 Oct 2022 | Overnight Min | 17.7 | 1.7 | 18.3 | 1.2 |
| 24 Oct 2022 | Evening Peak | 35.1 | 1.5 | 34.2 | 1.8 |
| 25 Oct 2022 | Overnight Min | 19.5 | 1.2 | 18.4 | 1.6 |
| 25 Oct 2022 | Evening Peak | 35.3 | 1.5 | 34.0 | 1.8 |

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

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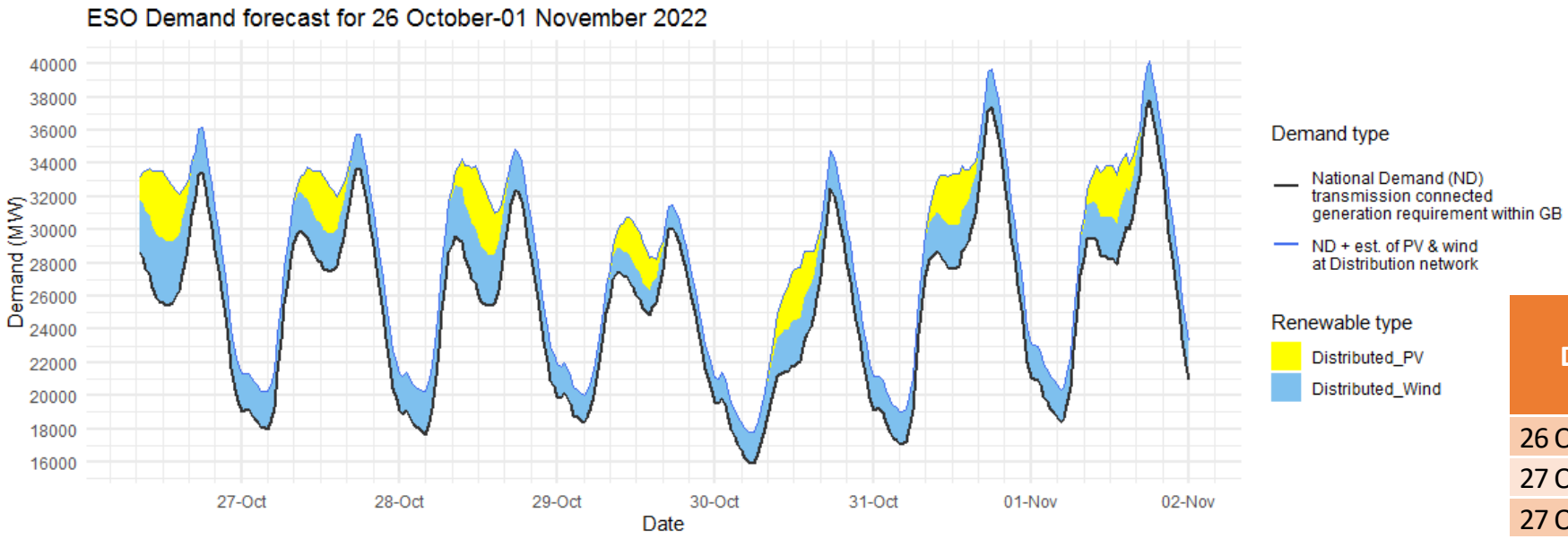
# Demand | Week Ahead




| | | FORECAST (Wed 26 Oct) | |
|---|---|---|---|
| Date | Forecasting Point | National Demand (GW) | Dist. wind (GW) |
| 26 Oct 2022 | Evening Peak | 33.5 | 2.7 |
| 27 Oct 2022 | Overnight Min | 18.0 | 2.2 |
| 27 Oct 2022 | Evening Peak | 33.7 | 2.1 |
| 28 Oct 2022 | Overnight Min | 17.7 | 2.6 |
| 28 Oct 2022 | Evening Peak | 32.3 | 2.5 |
| 29 Oct 2022 | Overnight Min | 18.4 | 1.6 |
| 29 Oct 2022 | Evening Peak | 30.1 | 1.4 |
| 30 Oct 2022 | Overnight Min | 15.9 | 1.9 |
| 30 Oct 2022 | Evening Peak | 32.4 | 2.3 |
| 31 Oct 2022 | Overnight Min | 17.0 | 2.0 |
| 31 Oct 2022 | Evening Peak | 37.4 | 2.3 |
| 01 Nov 2022 | Overnight Min | 18.4 | 1.9 |
| 01 Nov 2022 | Evening Peak | 37.8 | 2.3 |

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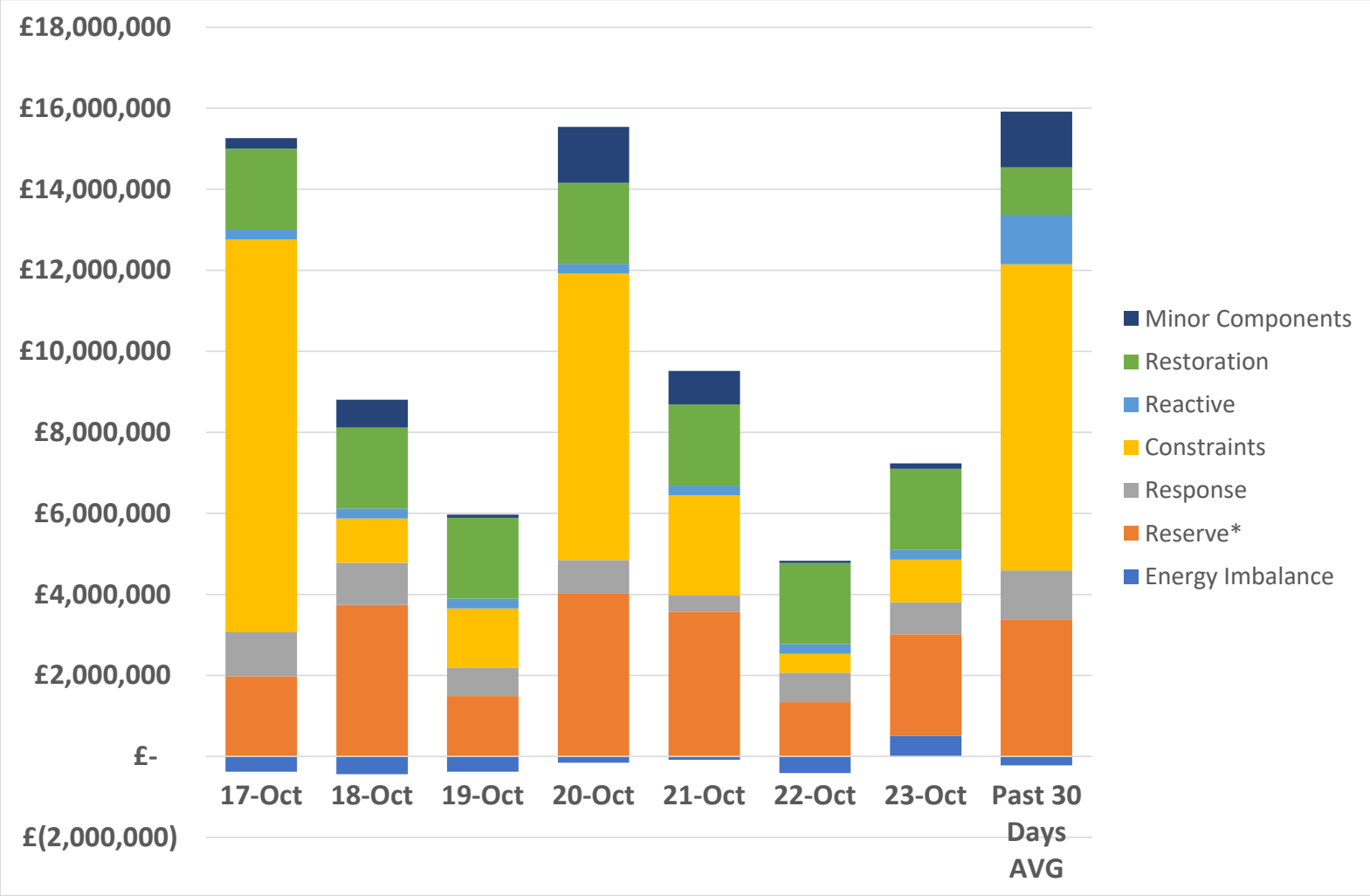
# ESO Actions | Category costs breakdown for the last week

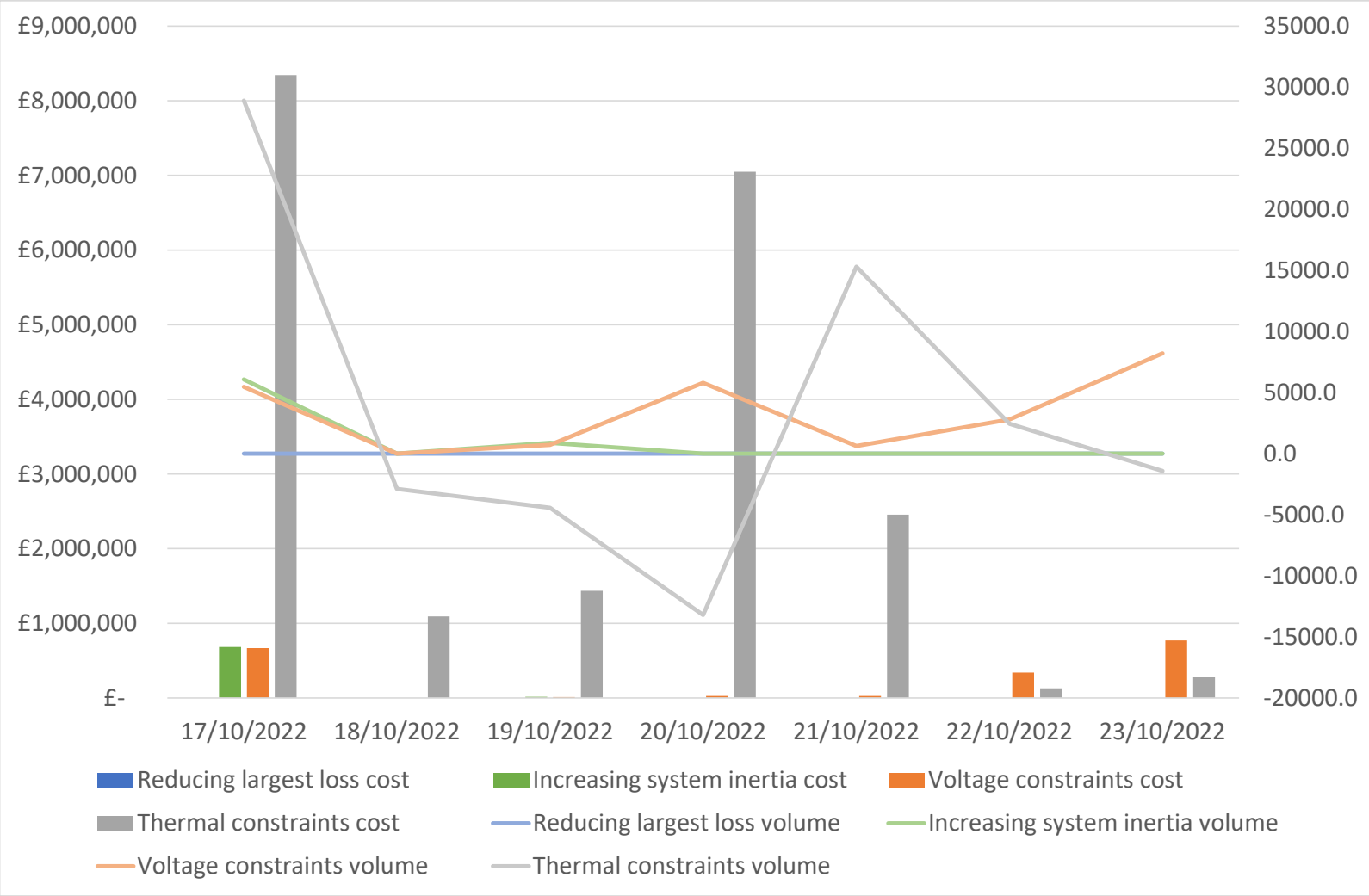



| Date | Total (£m) |
|---|---|
| 17/10/2022 | 14.9 |
| 18/10/2022 | 8.4 |
| 19/10/2022 | 5.6 |
| 20/10/2022 | 15.4 |
| 21/10/2022 | 9.4 |
| 22/10/2022 | 4.4 |
| 23/10/2022 | 7.2 |
| Weekly Total | 65.3 |

Constraints costs (mostly thermal) were the key cost component on Monday and Thursday. Reserve was the key cost component for Tuesday, Friday and Sunday.

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

# ESO Actions | Constraint Cost Breakdown



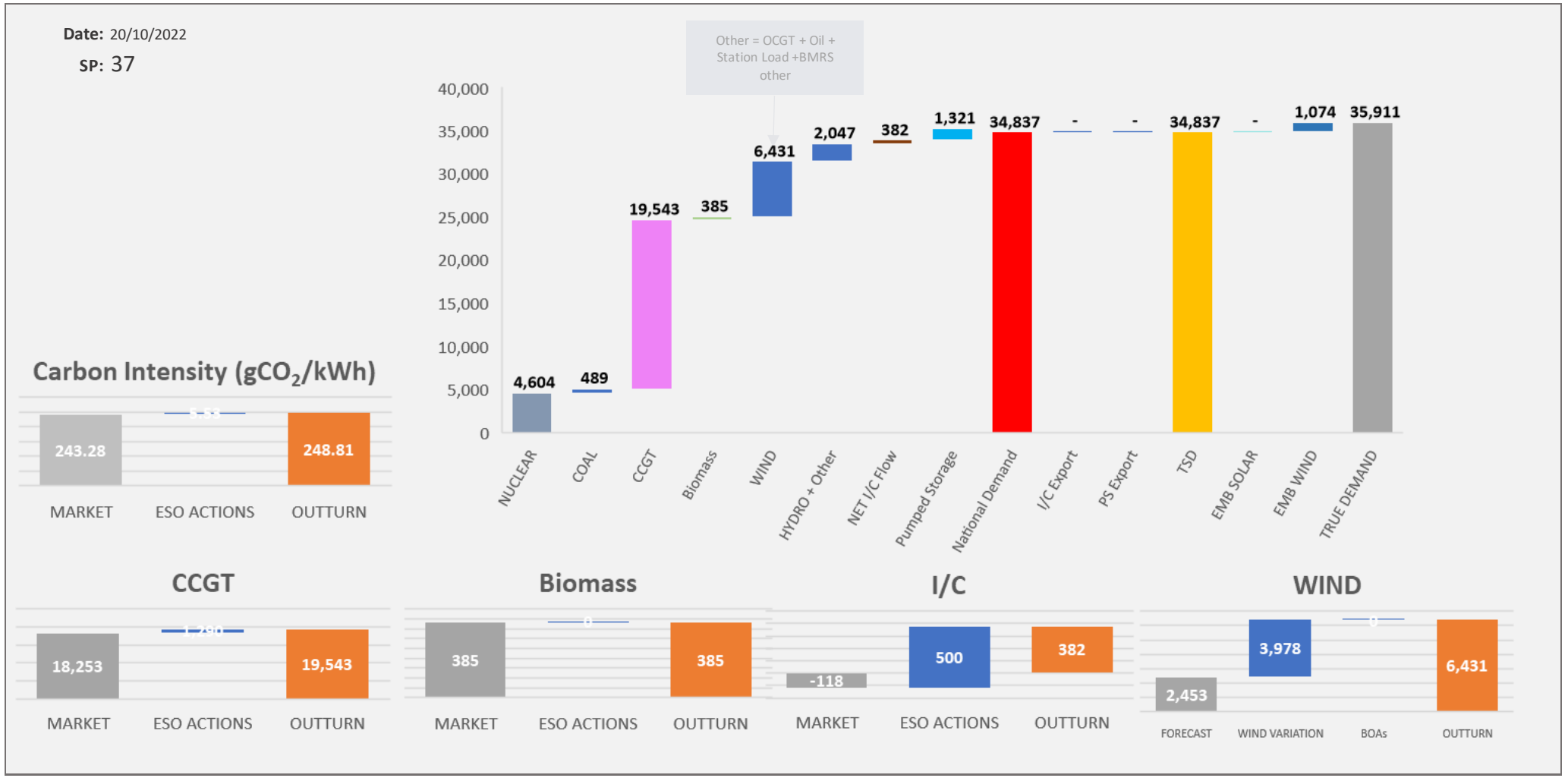

**Thermal – network congestion**
Actions required to manage Thermal Constraints throughout the week.

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

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

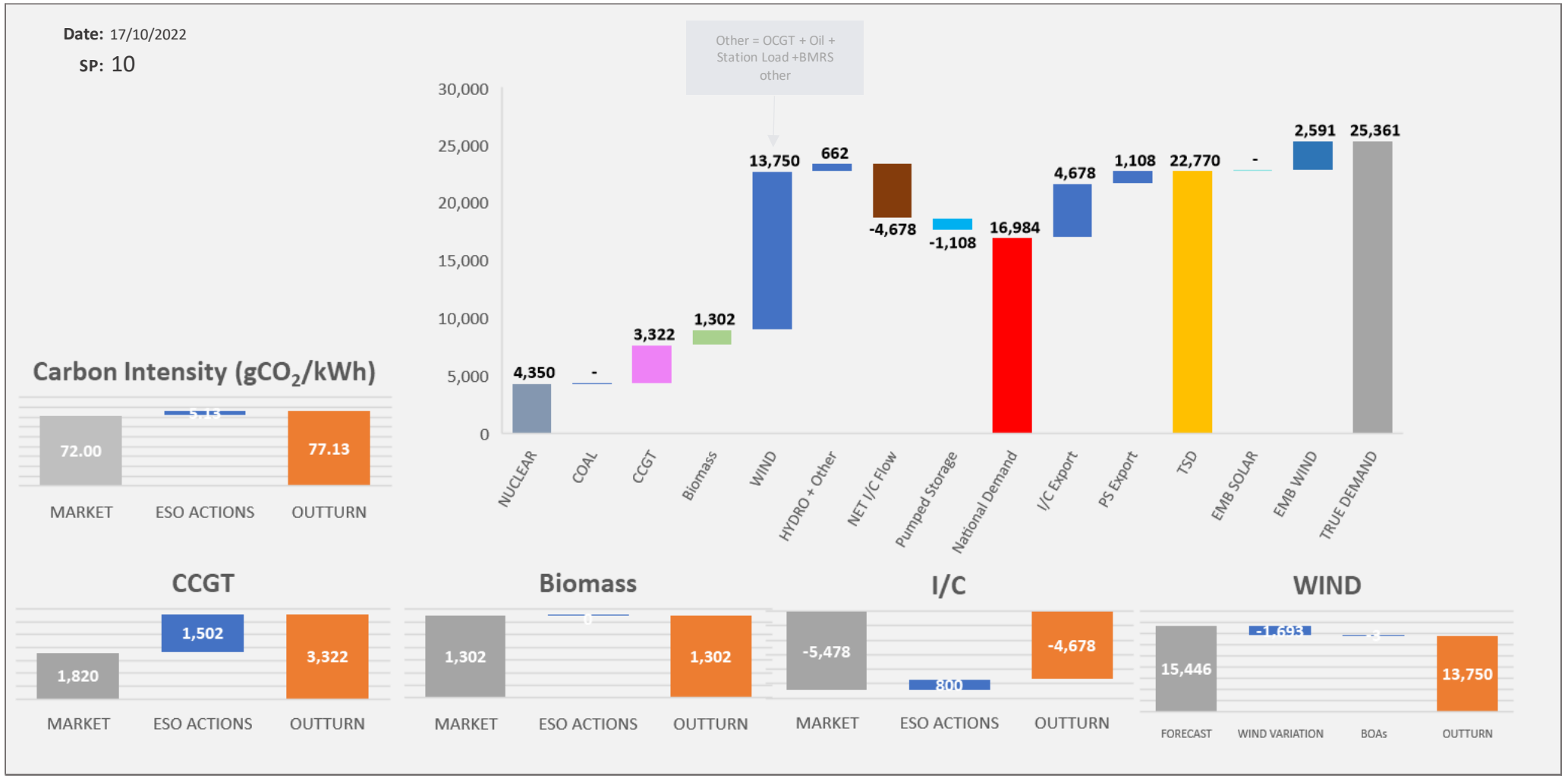
**Increasing inertia**
Intervention required to manage system inertia on Monday and Wednesday.

# ESO Actions | Thursday 20 October– Peak Demand – SP spend ~£438k



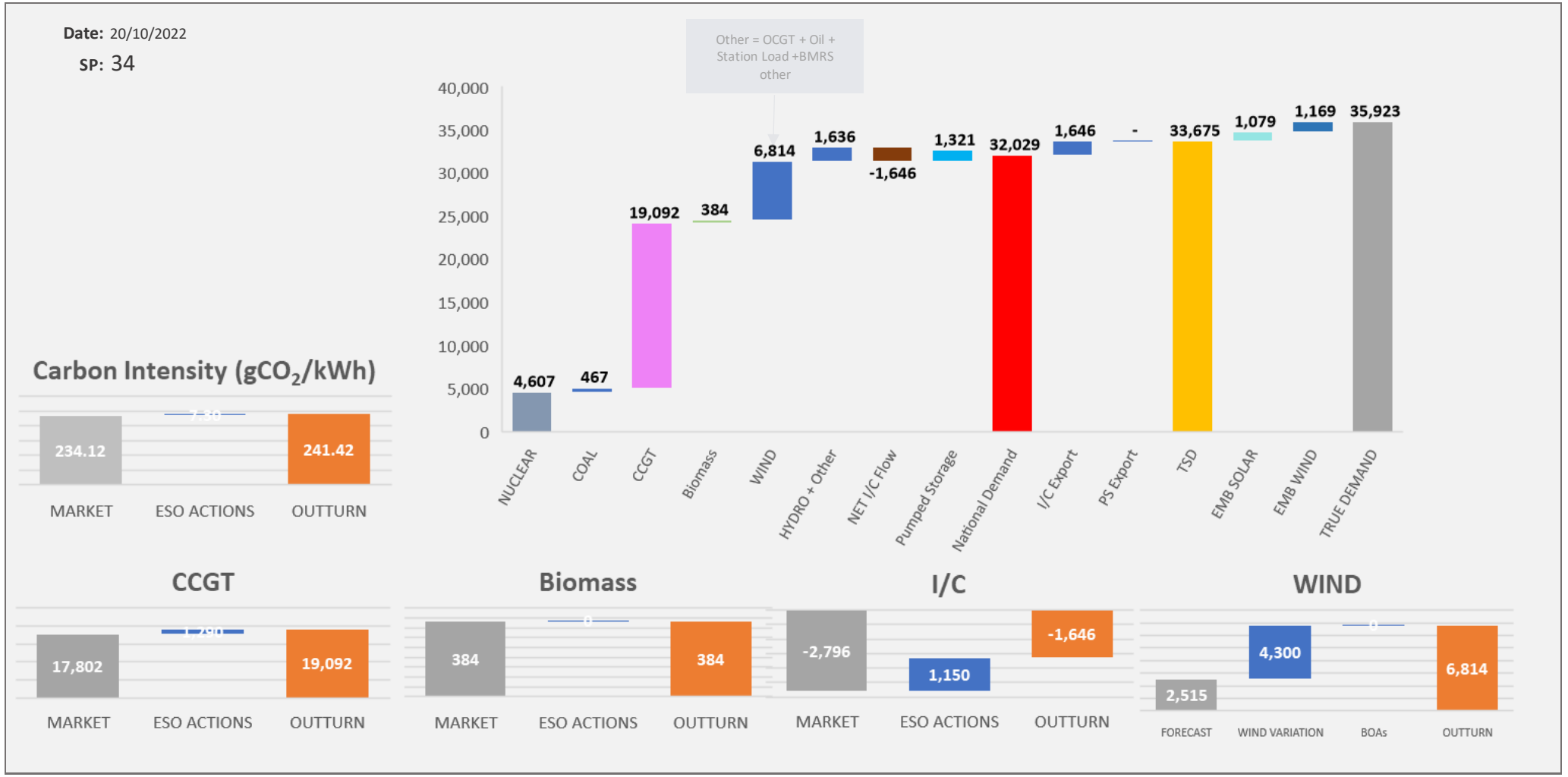

Carbon Intensity data on data portal: https://data.nationalgrideso.com/carbon-intensity1/carbon-intensity-of-balancing-actions

# ESO Actions | Monday 17 October – Minimum Demand – SP Spend ~ -£283k



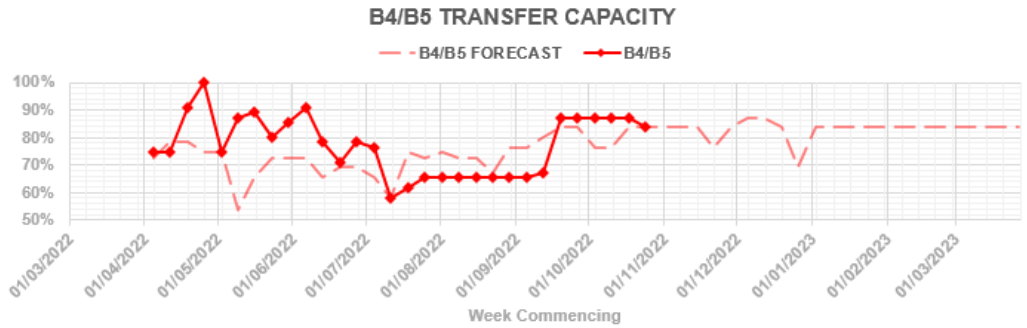

Carbon Intensity data on data portal: https://data.nationalgrideso.com/carbon-intensity1/carbon-intensity-of-balancing-actions

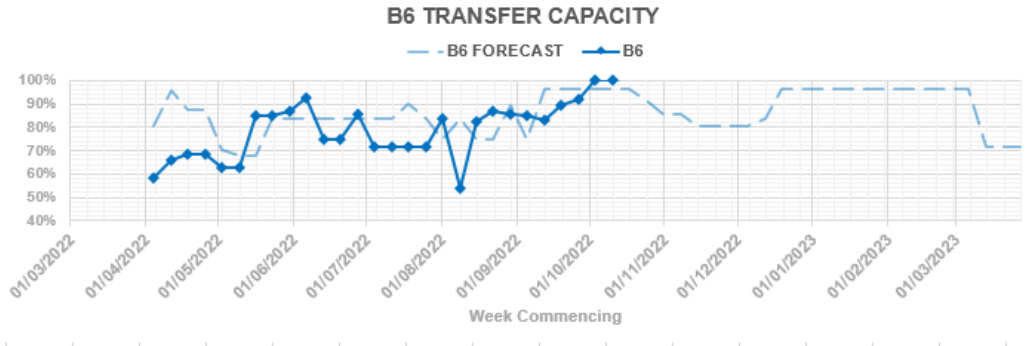
# ESO Actions | Thursday 20 October – Highest SP Spend ~£520k

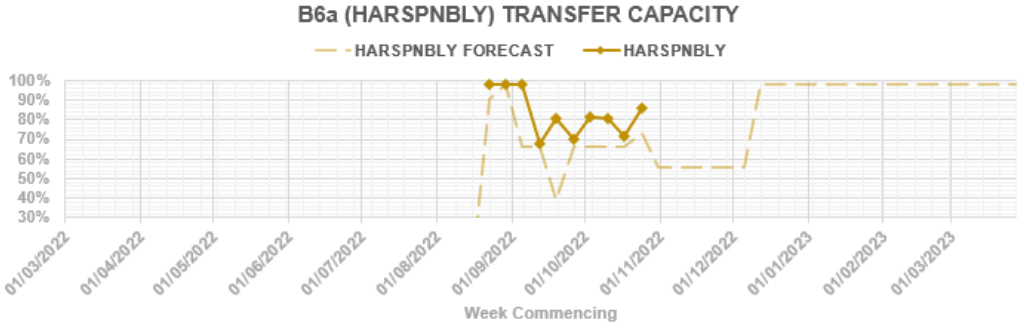



Carbon Intensity data on data portal: https://data.nationalgrideso.com/carbon-intensity1/carbon-intensity-of-balancing-actions

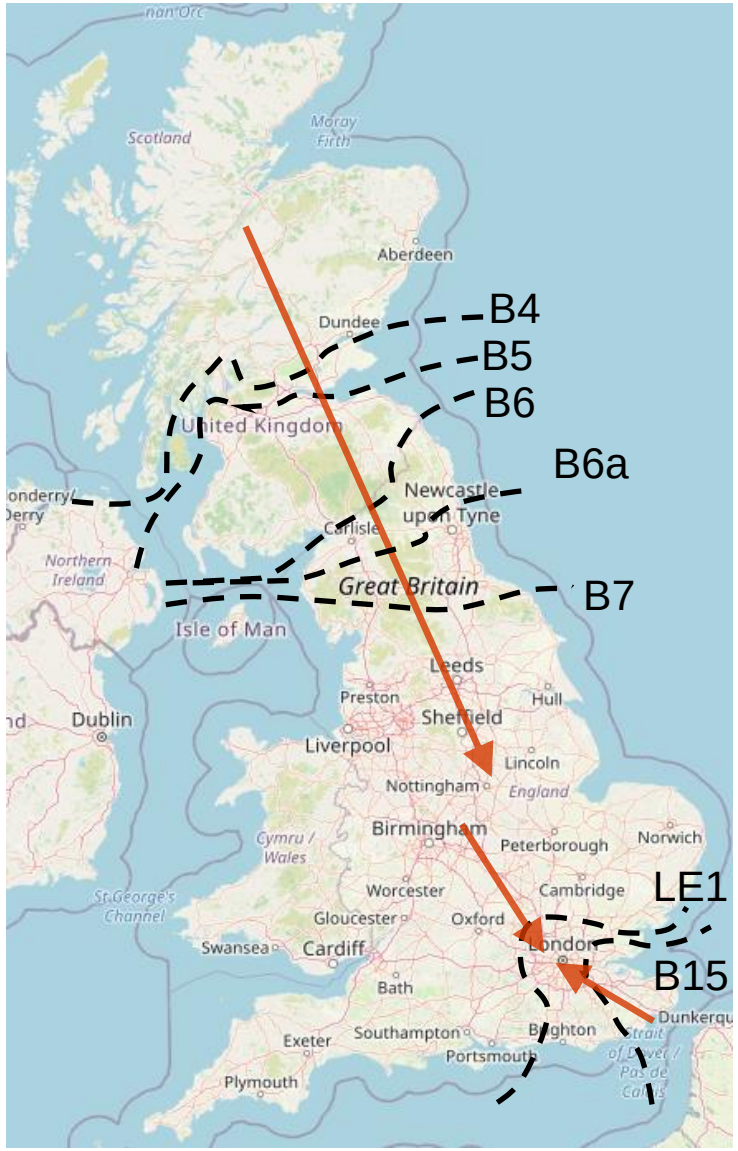
# Transparency | Network Congestion



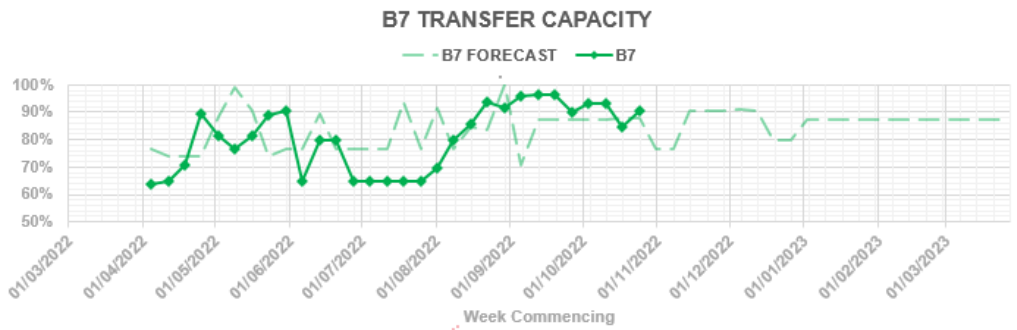



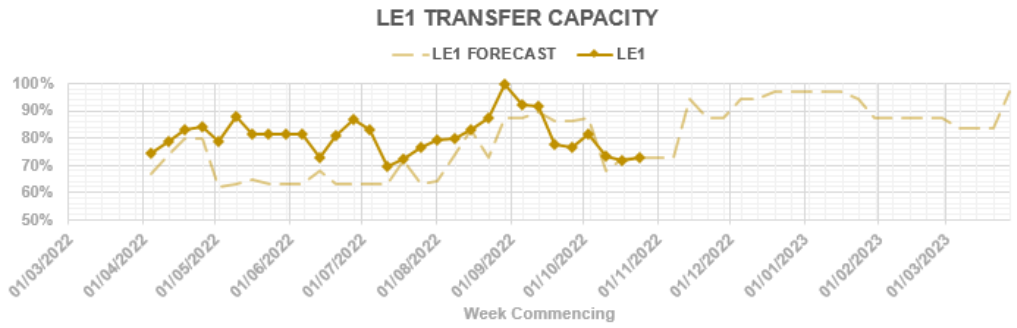

| Boundary | Max. Capacity (MW) |
|---|---|
| B4/B5 | 2750 |
| B6 | 5600 |
| B6a | 5850 |
| B7 | 8500 |
| LE1 | 8250 |
| B15 | 7500 |

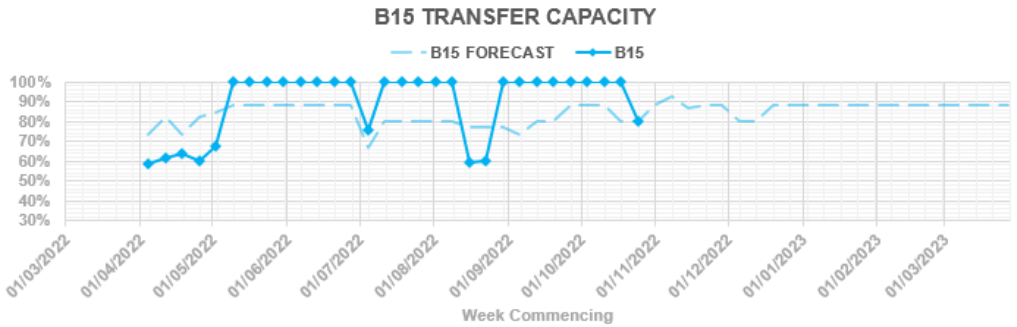



Day ahead flows and limits, and the 24 month constraint limit forecast are published on the ESO Data Portal:
https://data.nationalgrideso.com/data-groups/constraint-management

# Transparency | Network Congestion

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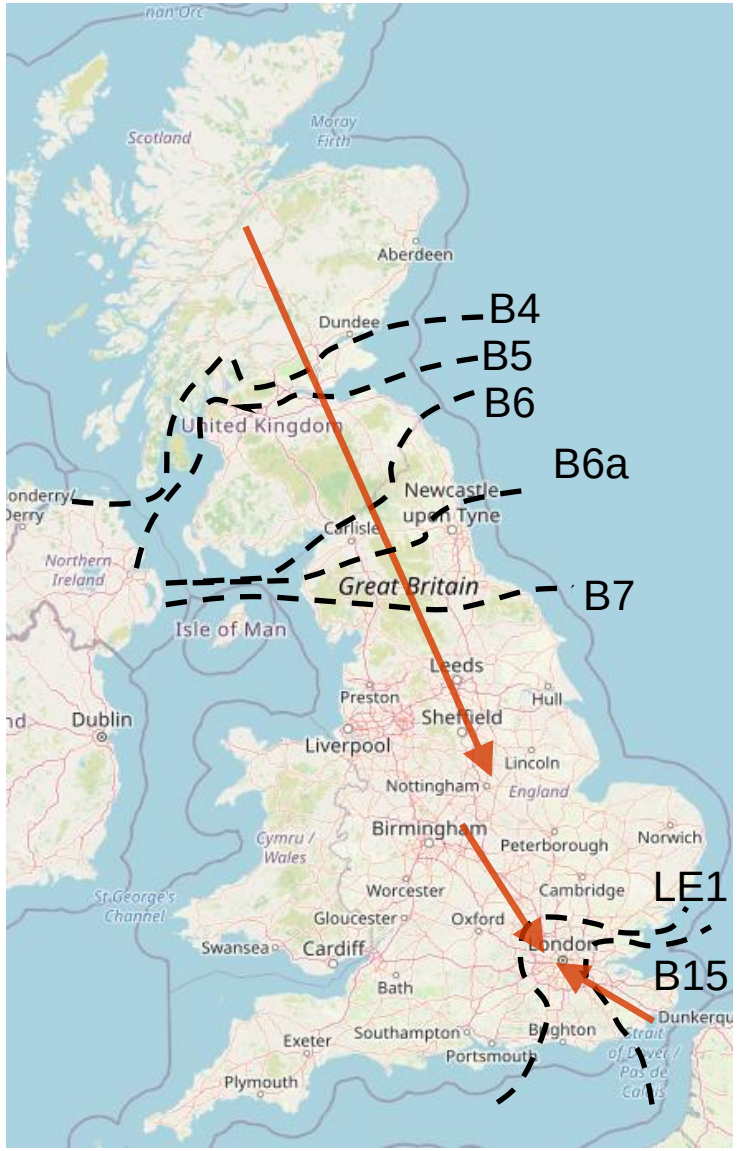


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# Previous weeks questions

Q: You said proving run for West Burton next week. Can you tell us the date? And time?

A  This has been answered in the slides

Q: On slide 11, can you explain why there were "restoration" costs? What was happening on the system that caused this system requirement? And where on the system was this happening?

A: It is a cost inextricably linked with the Winter Contingency Contracts

Q: If the BSUoS forecast was developed on the 6th, why was there such a long delay before publishing it yesterday?

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

The monthly BSOUS forecast was produced based on an average of the forward price curves derived between 30th September and 6th October 2022. This dataset was available internally to the ESO on 7th October to produce the report for internal review and approval. This process takes about a week and we aim to publish the report on the next working day after the 14th of the month. We published the BSUoS Forecast for November 2022 on 18th October after a slight delay in the approval process

# Previous weeks questions

Q: Which elements are contained within the extranet demand number available at this link? https://extranet.nationalgrid.com/RealTime As it is always equal or greater than INDO, so would assume that there are some elements to it not captured by INDO

A: The Real Time website demand is closest to Transmission System Demand as it includes Station Load and Pumped Storage demand in the calculations. Interconnectors are not directly included in the calculation, but are accounted for. This is because the calculation is based on several internal zones (different geographical regions used internally). We look at the zones and also the inter-zonal transfers. So where an interconnector is generating in a zone the calculation will see a higher transfer out of (or lower transfer in to) that zone because of the additional generation versus demand in that area. Similarly if the interconnector is taking demand this would result in lower transfers out or higher flows in. When we sum up all of the zones this effectively includes the interconnectors.

# Questions outstanding we are still working on

Q: Any update on ABSVD moving from R2 to SF runs?

Note: ABSVD: Applicable Balancing Services Volume Data. R2 and SF are data runs in the settlement process

Q: 3 days for £0 BOA's to be removed, why not just get the contracted coal to price at £99,999/MWh and you can sort out BM cashflows in settlement? At least within day cash out would be correct

# Advanced Questions

Q: Now that the award stage pf the NOA Stability Pathfinder 3 is coming to a close, can you please advise when /if a next phase of NOA tenders focused on inertia and SCL (Syn Cons or Converters) will open?

A: It is likely that we will run future procurement of inertia and SCL to support with our stability requirements. At this stage we do not have a firm date for when this will take place, however we are currently working towards defining this requirement. We hope that we can communicate indicative timelines to industry in early 2023.

slido

# Audience Q&A Session

ⓘ 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

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