

# ESO Operational Transparency Forum

25 May 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:

<https://data.nationalgrideso.com/plans-reports-analysis/covid-19-preparedness-materials>

### Regular Topics

Questions from last week  
Demand review  
Costs for last week  
Constraints

### Focus Areas

BP2 Consultation Update

## Questions outstanding from previous weeks

**Q: Have you renewed or tendered for "Reactive Power Mersey" after the last one run out on 31st March 2022?**

A: To date the Pathfinders we have run for voltage requirements are the Mersey long and short term and the Pennines pathfinder. Within these contracts there is an option to extend on a rolling month by month basis to cater for any delays in pathfinder delivery.

**Q: Is there an update on the legal assessment of whether the availability of transmission assets can be published?**

A: We do not have an update to share yet. When we have something we are able to share more widely we will bring it to this forum.

## Upcoming events

### OTF Stakeholder workshop

*Come and meet the face behind the voice on the OTF*

- We would like to gather ideas and feedback to continue improving the OTF
- Lunch will be provided
- Visit to control room viewing gallery with some of our regular OTF experts

24 June 1100-1300

*In person at our Wokingham offices*

Sign up by 17 June



<https://forms.office.com/r/G1M277Eqng>

### Demand Forecasting Consultation

For historical reasons, the Grid Code requires ESO to publish forecasts of quantities called National Demand and Transmission System Demand

- In the current system, these quantities are neither 'National' nor 'Demand'
- We want to **engage with stakeholders** to explain what we are forecasting
- To explore what stakeholders would **find most useful**
- To discuss how forecasts interact with the market mechanisms, and what constraints it puts on forecasting
- To discover routes to realising an **improved service**

24 June 1330-1530

*In person at our Wokingham offices*

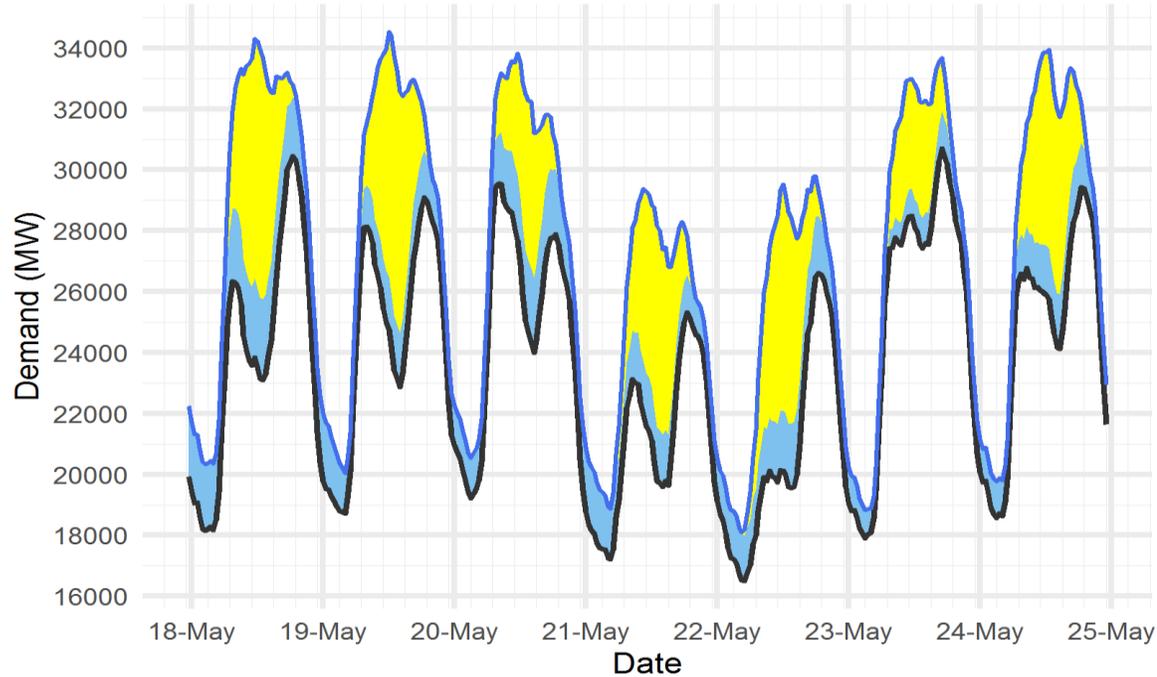
Sign up by 17 June



<https://forms.office.com/r/k1baP8k2Yb>

# Demand | Last week demand out-turn

ESO National Demand outturn 18-24 May 2022



### Demand type

- National Demand (ND)  
transmission connected  
generation requirement within GB
- ND + est. of PV & wind  
at Distribution network

### Renewable type

- Distributed\_Wind
- Distributed\_PV

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

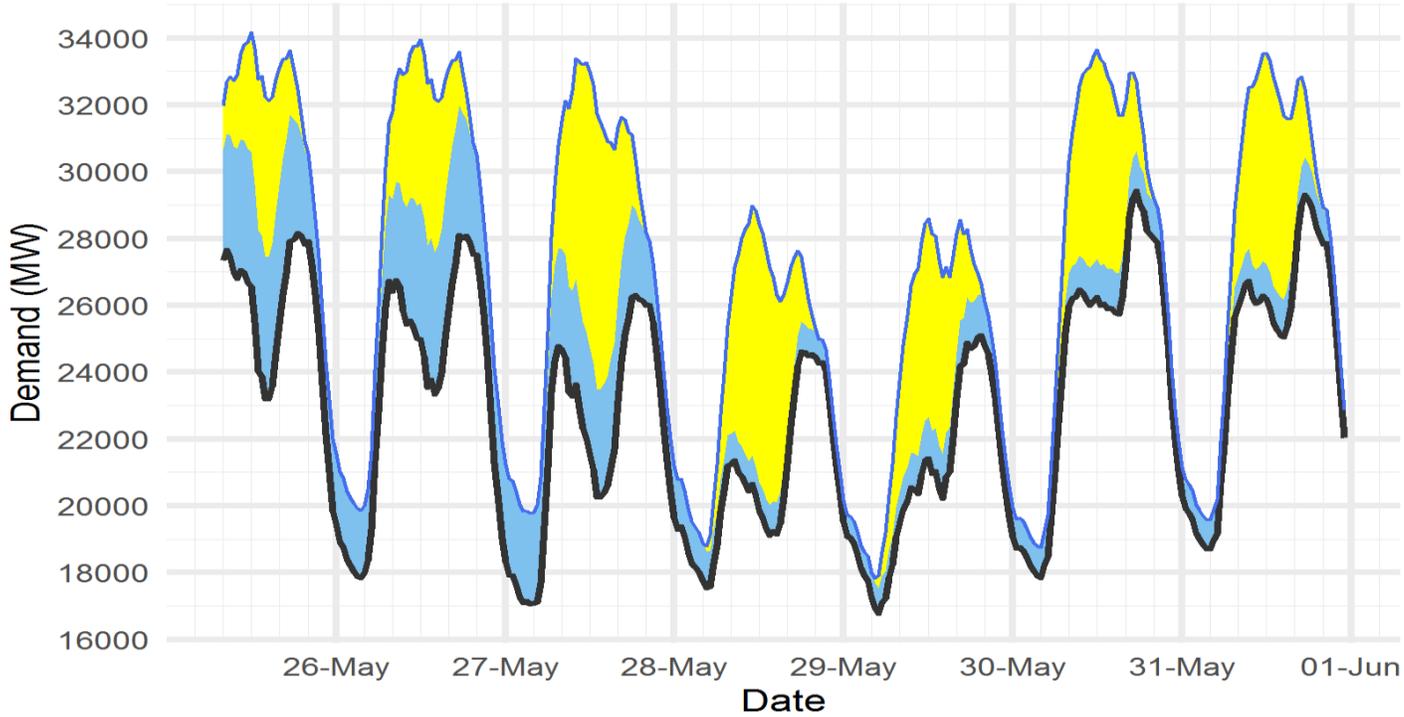
Blue line serves as a proxy for total GB customer demand. It includes demand supplied by the distributed wind and solar sources, but it **does not include** demand supplied by non-weather driven sources at the distributed network for which ESO has no real time data.

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 18 May)			OUTTURN		
		National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
18 May 2022	Afternoon Min	23.5	2.6	8.0	23.1	2.7	7.9
19 May 2022	Overnight Min	18.2	1.9	0.0	18.7	1.3	0.0
19 May 2022	Afternoon Min	23.1	1.9	8.2	22.9	1.8	7.9
20 May 2022	Overnight Min	19.1	1.1	0.0	19.2	1.3	0.0
20 May 2022	Afternoon Min	25.4	2.0	4.0	24.0	2.5	4.7
21 May 2022	Overnight Min	17.0	1.9	0.1	17.2	1.6	0.0
21 May 2022	Afternoon Min	19.3	2.3	6.2	19.6	1.7	6.1
22 May 2022	Overnight Min	16.7	1.2	0.3	16.5	1.5	0.2
22 May 2022	Afternoon Min	20.1	1.8	5.5	19.6	2.1	6.8
23 May 2022	Overnight Min	17.6	1.1	0.0	17.9	0.9	0.0
23 May 2022	Afternoon Min	25.4	1.7	5.4	27.4	1.0	3.8
24 May 2022	Overnight Min	18.2	1.4	0.0	18.6	1.2	0.0
24 May 2022	Afternoon Min	24.8	2.0	5.8	24.1	1.8	5.8

# Demand | Week Ahead

ESO Demand forecast for 25-31 May 2022



## Demand type

- National Demand (ND) transmission connected generation requirement within GB
- ND + est. of PV & wind at Distribution network

## Renewable type

- Distributed\_Wind
- Distributed\_PV

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

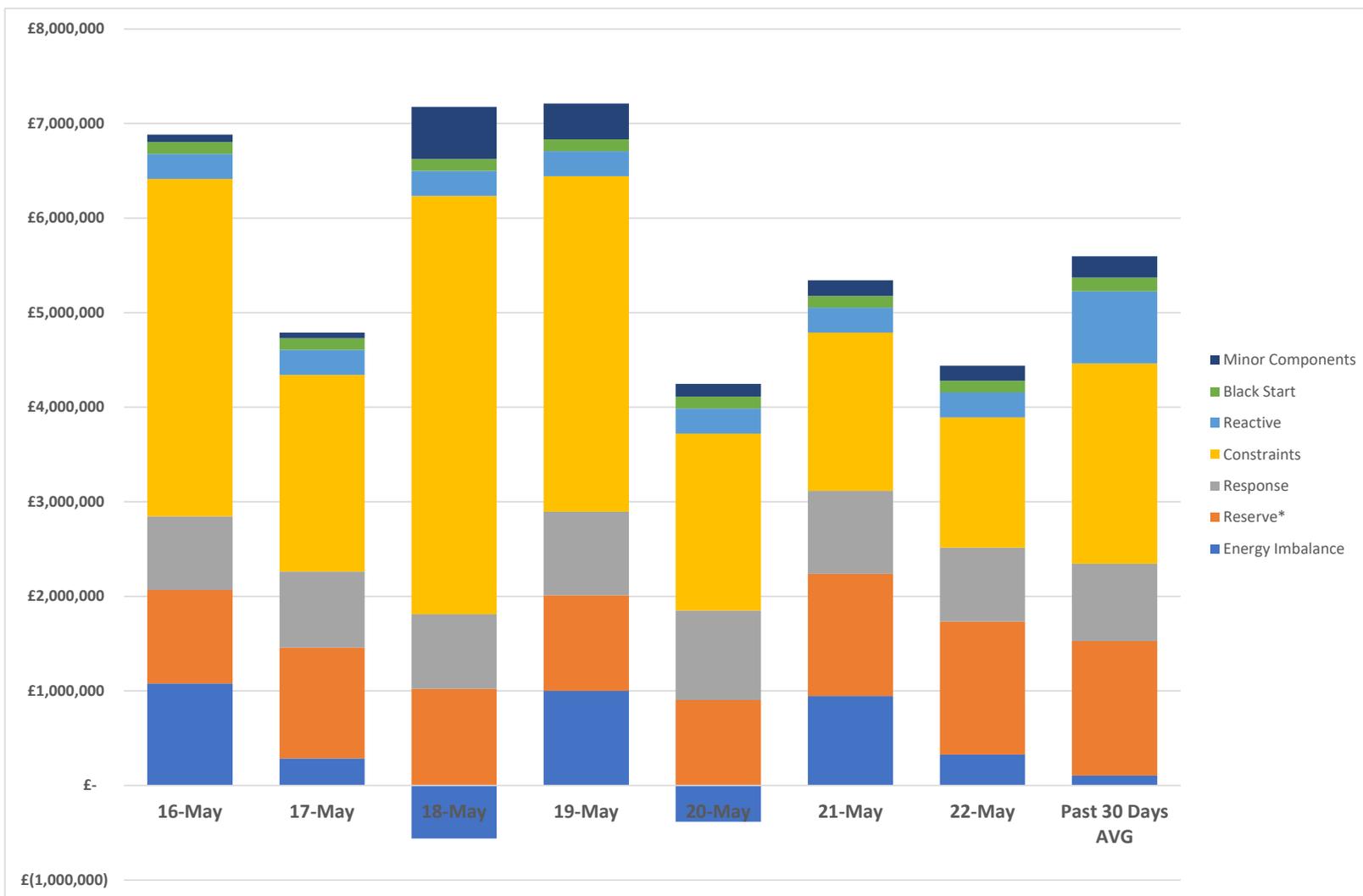
ND values **do not include** export on interconnectors or pumping or station load

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 25 May)		
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
25 May 2022	Afternoon Min	23.2	4.3	4.7
26 May 2022	Overnight Min	17.8	2.0	0.0
26 May 2022	Afternoon Min	23.3	4.3	4.6
27 May 2022	Overnight Min	17.1	2.7	0.0
27 May 2022	Afternoon Min	20.3	3.2	8.0
28 May 2022	Overnight Min	17.5	1.1	0.2
28 May 2022	Afternoon Min	19.1	0.9	7.1
29 May 2022	Overnight Min	16.8	0.8	0.3
29 May 2022	Afternoon Min	20.2	1.3	5.3
30 May 2022	Overnight Min	17.9	0.9	0.0
30 May 2022	Afternoon Min	25.7	1.2	4.7
31 May 2022	Overnight Min	18.7	0.9	0.0
31 May 2022	Afternoon Min	25.1	1.1	5.5

# ESO Actions | Category costs breakdown for the last week



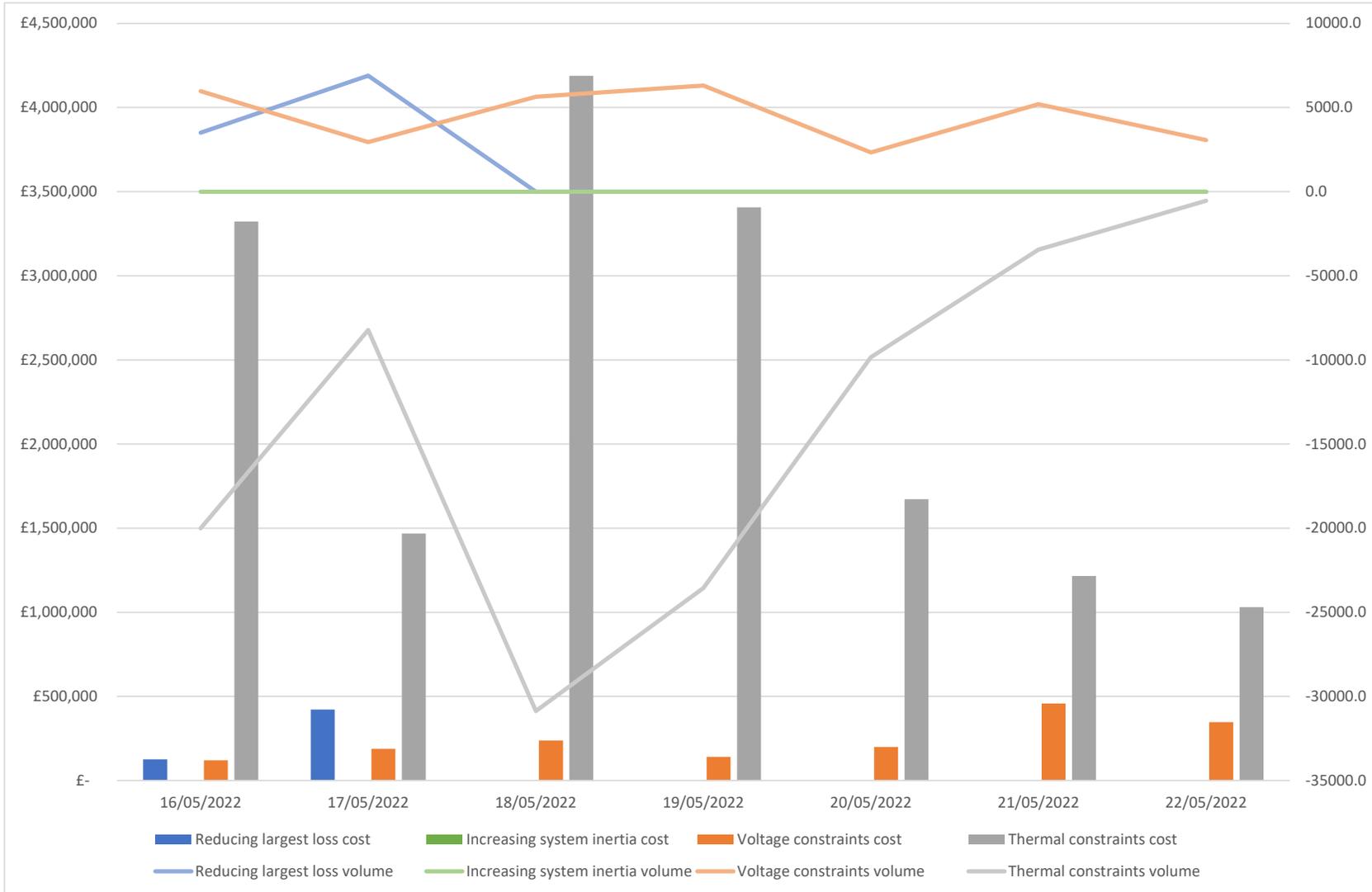
Date	Total (£m)
16/05/2022	6.9
17/05/2022	4.8
18/05/2022	6.6
19/05/2022	7.2
20/05/2022	3.9
21/05/2022	5.3
22/05/2022	4.4
<b>Weekly Total</b>	<b>39.1</b>

Key driver of costs was Constraints category

\*Reserve includes Operating Reserve, STOR, Fast Reserve, Negative Reserve, Other Reserve

Past 30 Days Average is displayed in the chart

# ESO Actions | Constraint Cost Breakdown



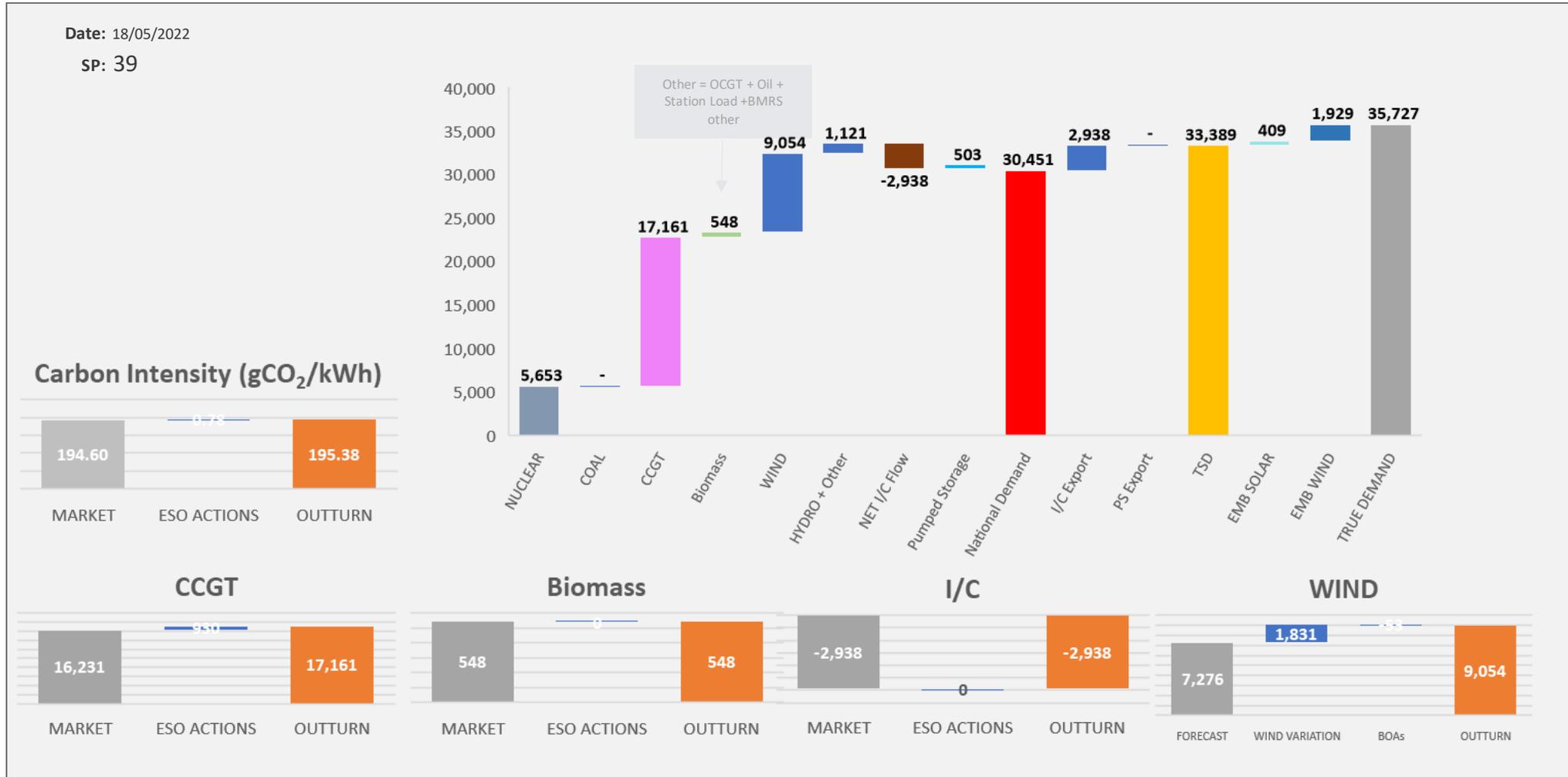
**Thermal – network congestion**  
 Actions required to manage Thermal Constraints throughout the week

**Voltage**  
 Actions taken to synchronise generation to meet voltage requirements were required throughout the week

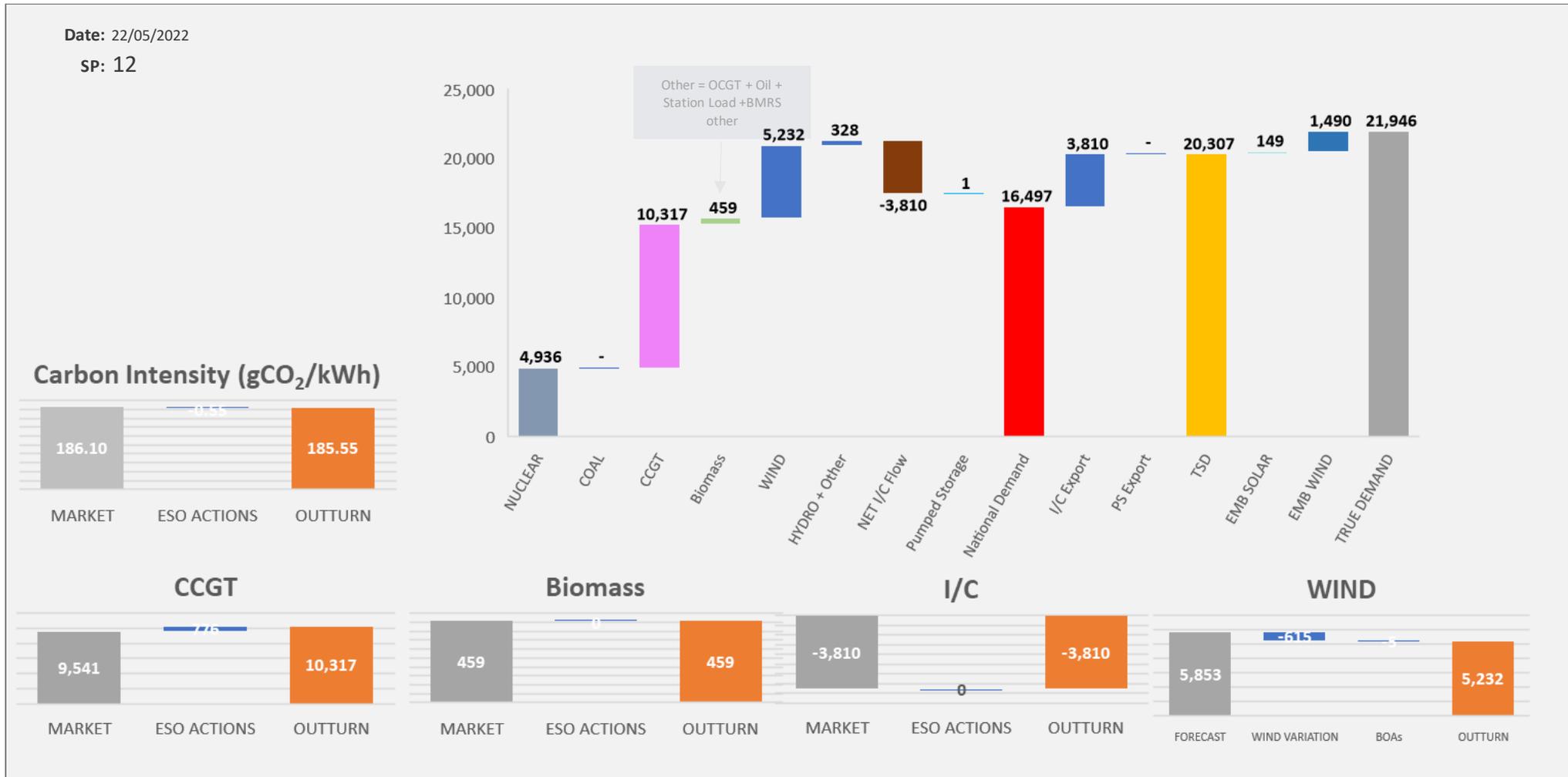
**Managing largest loss for RoCoF**  
 Intervention required to manage largest loss on Monday and Tuesday.

**Increasing inertia**  
 No Intervention required to increase minimum inertia

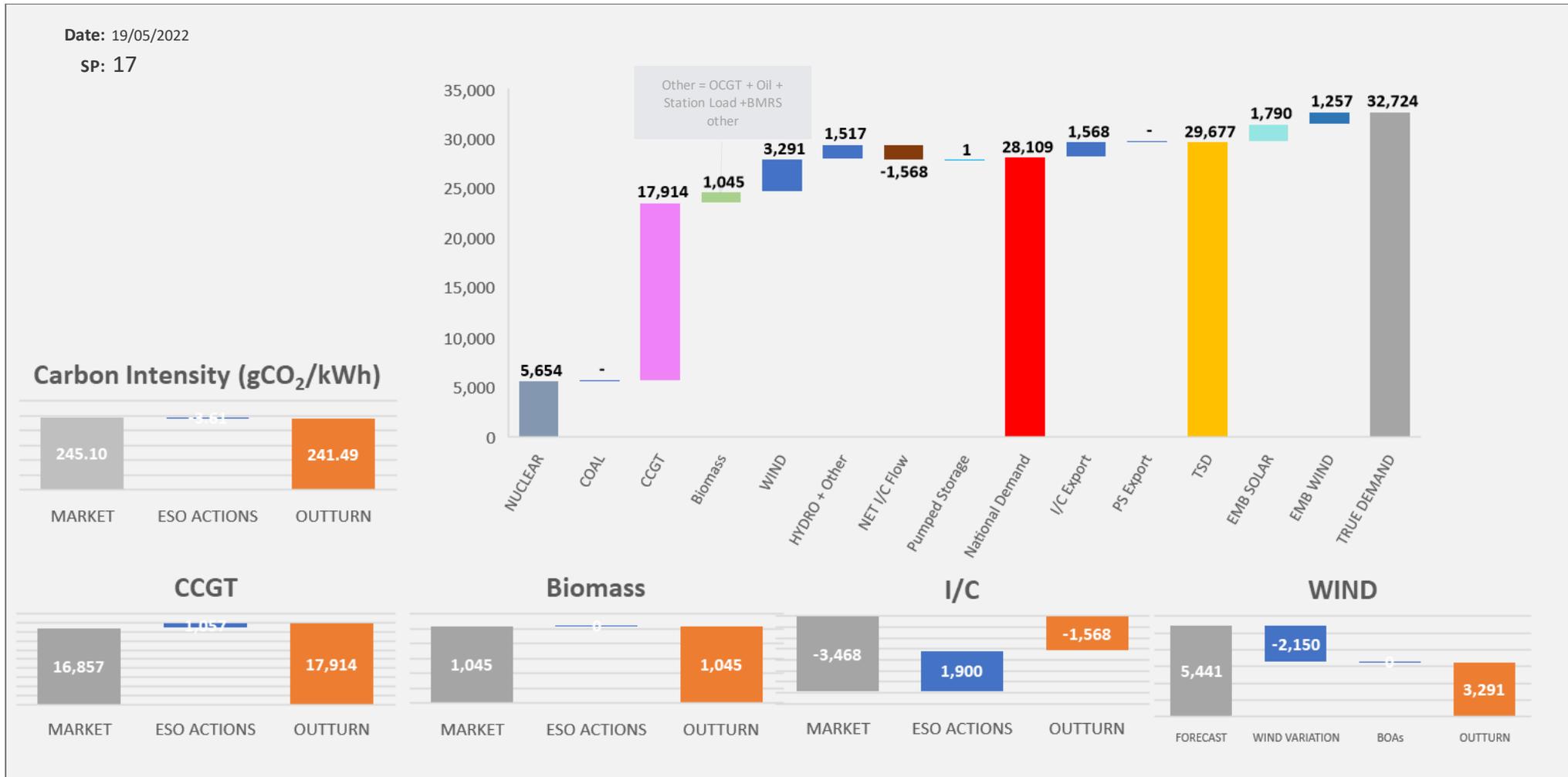
# ESO Actions | Wednesday 18 May Peak



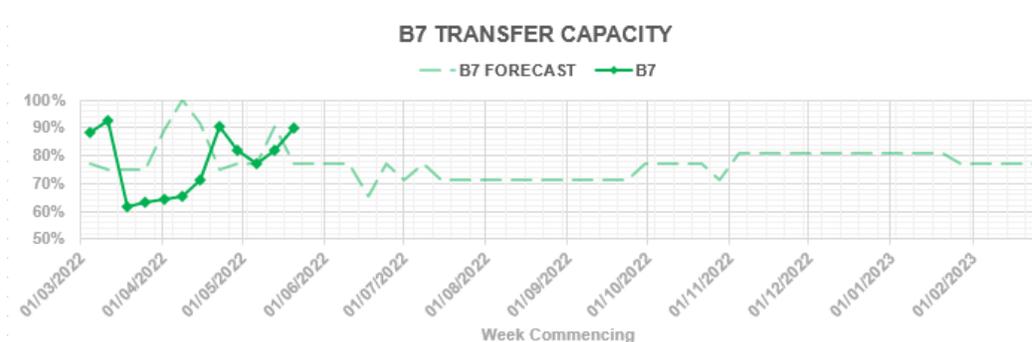
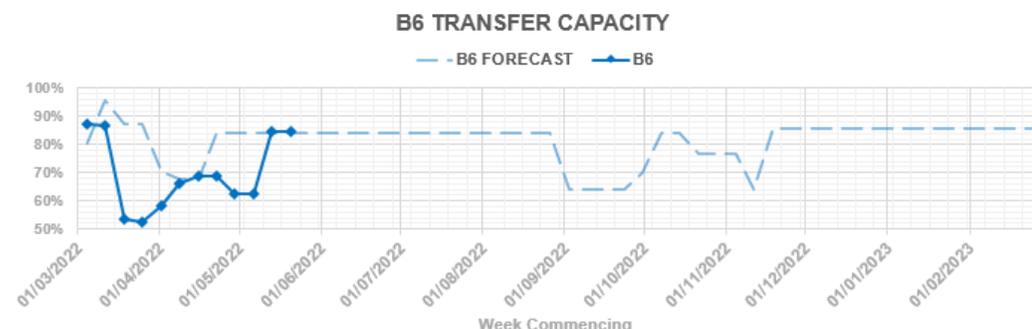
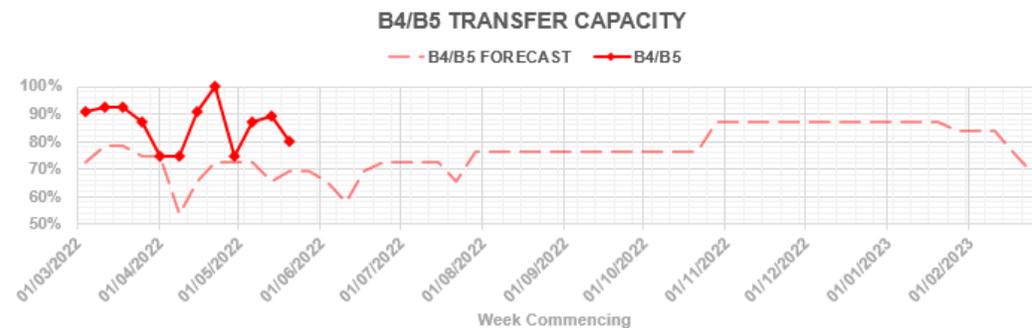
# ESO Actions | Sunday 22 May Minimum



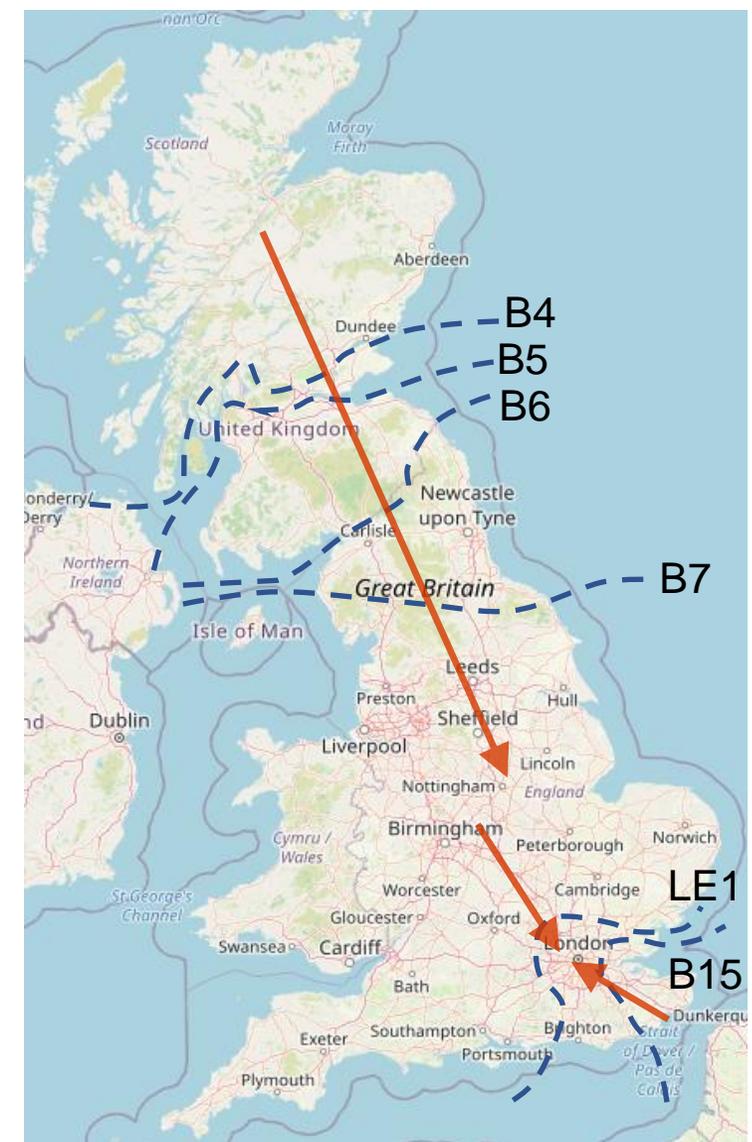
# ESO Actions | Thursday 19 May Highest Spend ~£0.3m



# Transparency | Network Congestion



Boundary	Max. Capacity (MW)
B4/B5	2750
B6	5600
B7	8400
LE1	7000
B15	7500



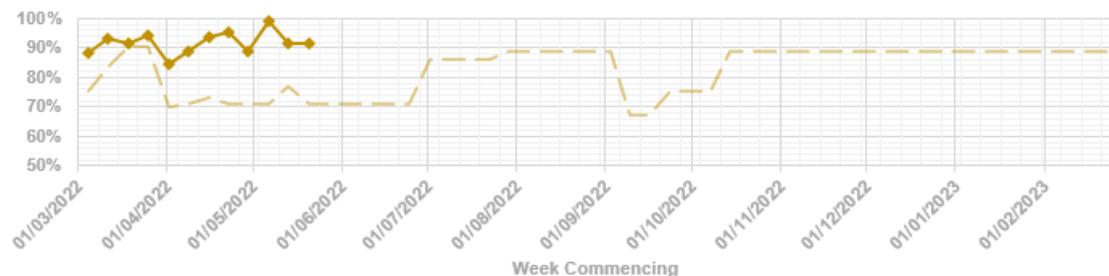
Day ahead flows and limits, and the 24 month constraint limit forecast are published on the ESO Data Portal:

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

# Transparency | Network Congestion

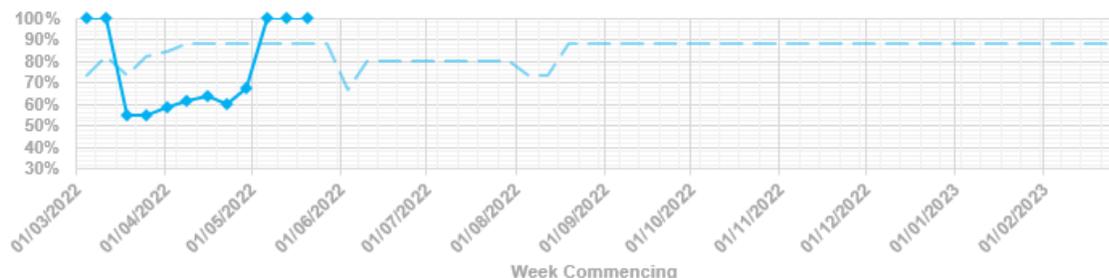
LE1 TRANSFER CAPACITY

— LE1 FORECAST — LE1

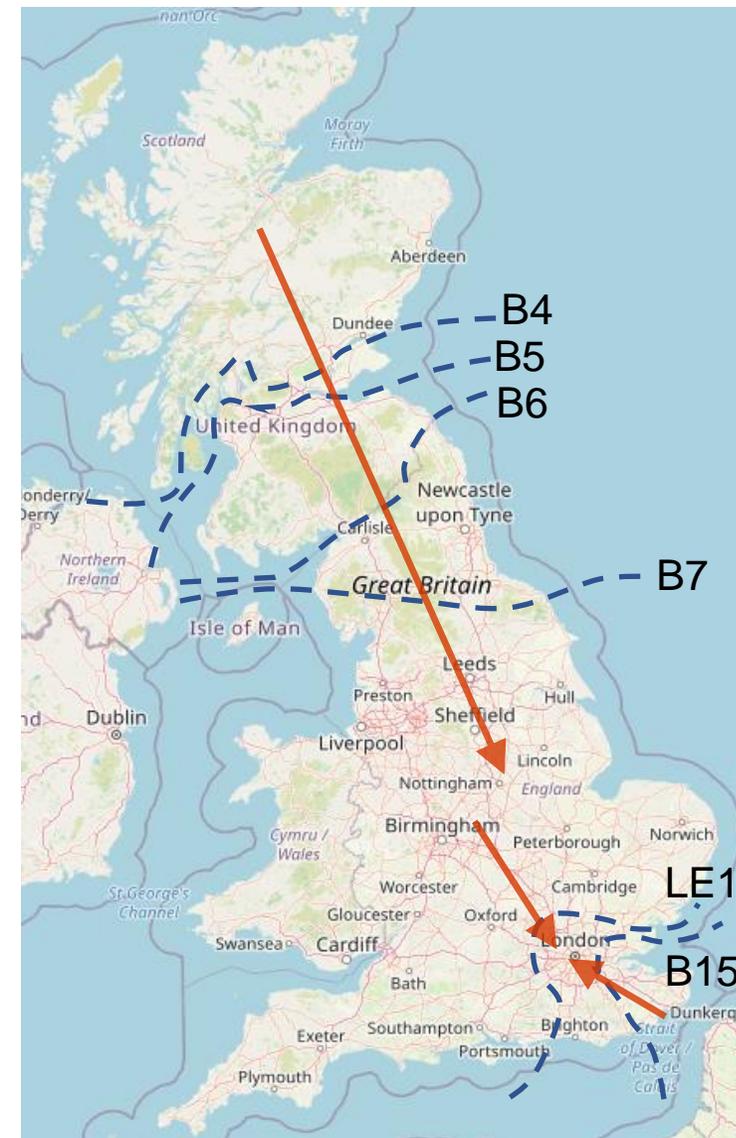


B15 TRANSFER CAPACITY

— B15 FORECAST — B15



Boundary	Max. Capacity (MW)
B4/B5	2750
B6	5600
B7	8400
LE1	7000
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>



# BP2 Consultation Update

# National Grid ESO's second RIIO-2 Business Plan (BP2)

Our 2019 RIIO-2 Business Plan set out ambitious goals for the **five-year period 2021-2026**.

Business Plan 2 (BP2) is a refresh of our RIIO-2 plans and details what we will deliver from **April 2023 – March 2025**.

We submitted our draft BP2 to Ofgem on **Friday 29 April 2022**  
Consultation **closes Friday 10 June**

Consultation feedback will inform our final BP2, which we will submit in **August 2022**

We held an introductory webinar **Wednesday 4 May** – a recording of this is available on our [website](#), along with the full BP2 plan and consultation details.

# RIIO-2 web pages

<https://www.nationalgrideso.com/our-strategy/riio>

## Consultation on our Updated Plan

All of our draft proposal documents can be found below within key publications, supporting documents and what we are planning to deliver sections. Please note that **Annex 4 - IT** will be published on **16 May 2022**. Ofgem have agreed to allow us additional time to meet the full requirements of their ESO BP2 IT Investment Plan Guidance Document.

We are now asking for stakeholder views of our draft plan which we will use to help inform the final publication of our plan in August 2022. Our consultation is open from 29 April to 10 June and there will be a variety of ways for stakeholders to feed back.

We recently hosted a webinar which launched our BP2 consultation and presented an overview of our second business plan, it also included a live Q&A. You can now [view the recording](#), and [download the slide pack](#).

Please use the [Consultation Proforma](#) to access and respond to the consultation questions, or contact us via [box.eso.riio2@nationalgrid.com](mailto:box.eso.riio2@nationalgrid.com) for any Business Plan queries.

## Key Publications



### RIIO-2 Draft Business Plan 2023-2025

BP2 is a full refresh of our RIIO-2 plans and sets out detailed proposals for years three and four of the original five-year framework, i.e. April 2023 – March 2025.



### Executive Summary

No time? Download the executive summary of BP2.



## Supporting documents



### Annex 1 - Supporting Information

Includes delivery roadmaps, an updated activity list and more information on Activity A22.



### Annex 2 – Cost Benefit Analysis

We set out expected consumer benefit of the activities in BP2.



### Annex 3 – Stakeholder engagement

A summary of the engagement carried out and feedback received so far for BP2.



### Annex 4 – Technology Investment

Technology portfolio overview and breakdown of our latest investments, including costs, approach and solution options.



## BP2 webinars you might be interested in

Thursday  
26<sup>th</sup> May  
3-4pm

[Facilitating distributed flexibility](#)

Tuesday  
31<sup>st</sup> May  
10:30-  
12:00

[How can we empower consumers to participate in a flexible energy system?](#)

## How can you respond to the consultation?

- Complete the downloadable [consultation proforma](#)
- Alternatively, you can complete the [Microsoft Form survey](#)
- Or, send your feedback through directly to our .box: [box.eso.rrio2@nationalgrid.com](mailto:box.eso.rrio2@nationalgrid.com)
- Finally, if you'd like us to set up a bilateral meeting with you/your organisation, please email us using the address above and we'll be in touch

**slido**



## **Audience Q&A Session**

① Start presenting to display the audience questions on this slide.

## Q&A

Please remember to use the feedback poll after the event. We welcome feedback to understand what we are doing well and how we can improve the event ongoing.

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)

