



ESO Operational Transparency Forum

7 July 2021

You have been joined in listen only mode with cameras off, the webinar will start shortly

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.

Please continue to use your normal communication methods with the ESO including the below:

For future market developments: box.futureofbalancingservices@nationalgrideso.com

For pathfinders: box.networkdevelopment.roadmap@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
- Business continuity
- Demand review and outlook
- Costs for last week
- Constraints

Questions outstanding from last week

Q: National demand is confusing - ESO state this is the black (lower) line but this is actually "Transmission" demand as it doesn't include the Demand served by embedded generation (the top blue line). So black line should be called Transmission and blue called National "GB demand" correct?

A: We understand that customers & stakeholders might find it confusing. The naming is a legacy issue when before the advent of the generation connected at the distribution network, total GB customer demand was equal to the national demand.

The black line is the measure of portion of total GB customer demand that is supplied by the transmission network.

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.

The naming is specified in Grid Code. There are no plans to change the name as there is too many system throughout the entire industry that rely on this historical naming convention.

We are planning to engage with industry in autumn to discuss demand definitions, how it is used and what ESO should forecast to best meet market needs. More details about this to follow soon.

Q: Stability markets innovation paper on the future of Inertia procurement has apparently been published but can't be seen on ENA's website. Is it out yet and where can we see it?

A: The Stability Market Design project initiation and PEA document is now live on the ENA website ([link](#)) project reference NIA2_NGESO005.

Questions outstanding from last week

Q: Please can we have a detailed breakdown on the economics being bidding CCGT down in the teens when higher priced bids exist. Understand that there is 'other system benefit' (freq resp?) but I'm struggling to see how this is larger than the £40(ish)/MWh between best and accepted bid price

A: Thank you for the specific example provided in Sli.do and through email. We have looked into this and identified that there was a small tweak required in the script to ensure the data was correct for response instructions sent outside of the settlement day. These units received frequency response instructions and therefore should have been categorised as Response. The script has been updated and the results will reflect this change for the dataset uploaded next Wednesday, the actions will be classified as Frequency in the dataset up to then. We appreciate your challenge on these items and are happy to commit to run a deep dive session should there be other instances identified.

With regard to the specifics of this query, out-of-merit bids were taken on a particular BMU to allow it to be allocated to response duties. Due to the BMU's response capabilities this was more economic overall than taking a larger volume of bids on other plant, to access the same levels of response, and balancing with more expensive offers.

Future forum topics

While we want to remain flexible to provide insight on operational challenges when they happen, we appreciate you want to know when we will cover topics.

In response to questions and asks from previous weeks, we have the following deep dives planned in:

Inertia deep dive - 14 July

NOA deep dive

Review of bid actions taken

System Inertia dataset



The screenshot shows the top navigation bar with links for Home, Datasets, Data Groups, Help, and About. A search bar is located on the right. Below the navigation bar is a yellow header section with the title 'System Inertia' and a breadcrumb trail: Home / System / System Inertia.



New dataset live on the data portal to meet commitment in Transparency Roadmap

System Inertia

System

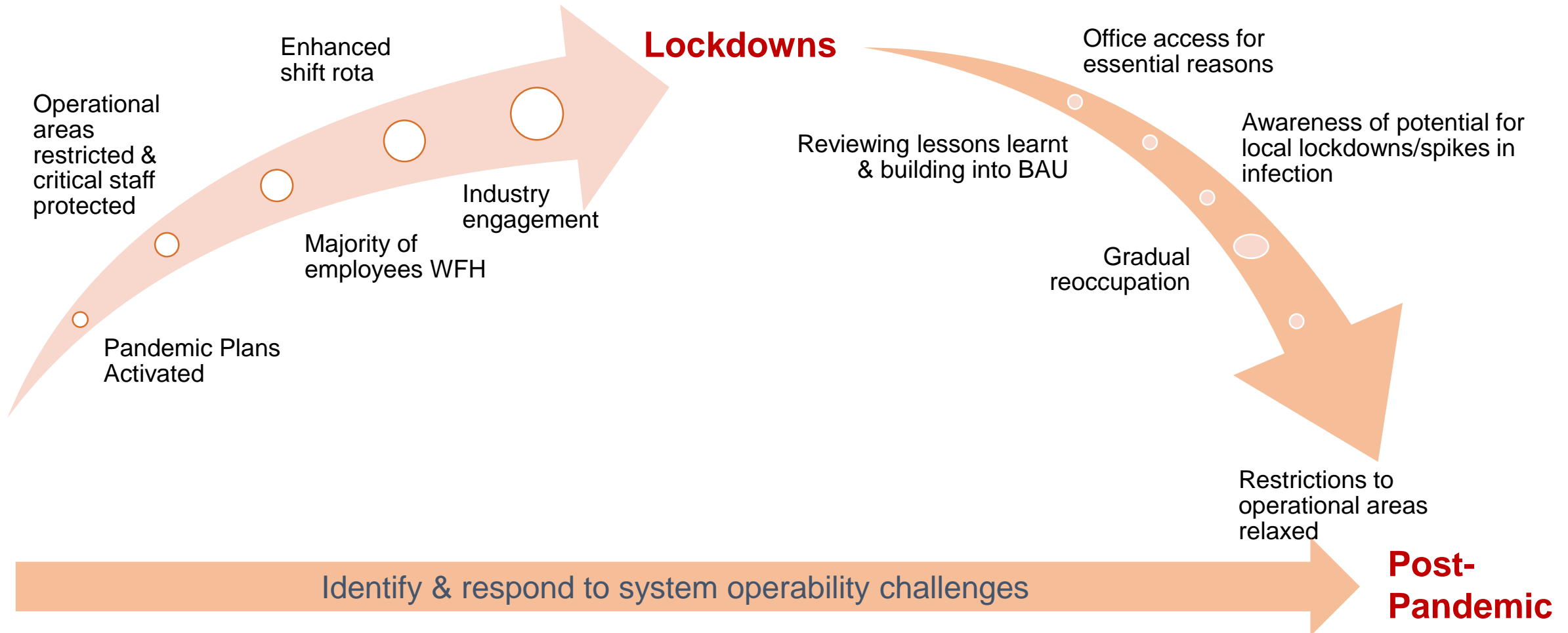
This dataset contains an estimate of the outturn inertia and market provided inertia for Great Britain Transmission System.

Showing 1 - 5 of 5 Data Files

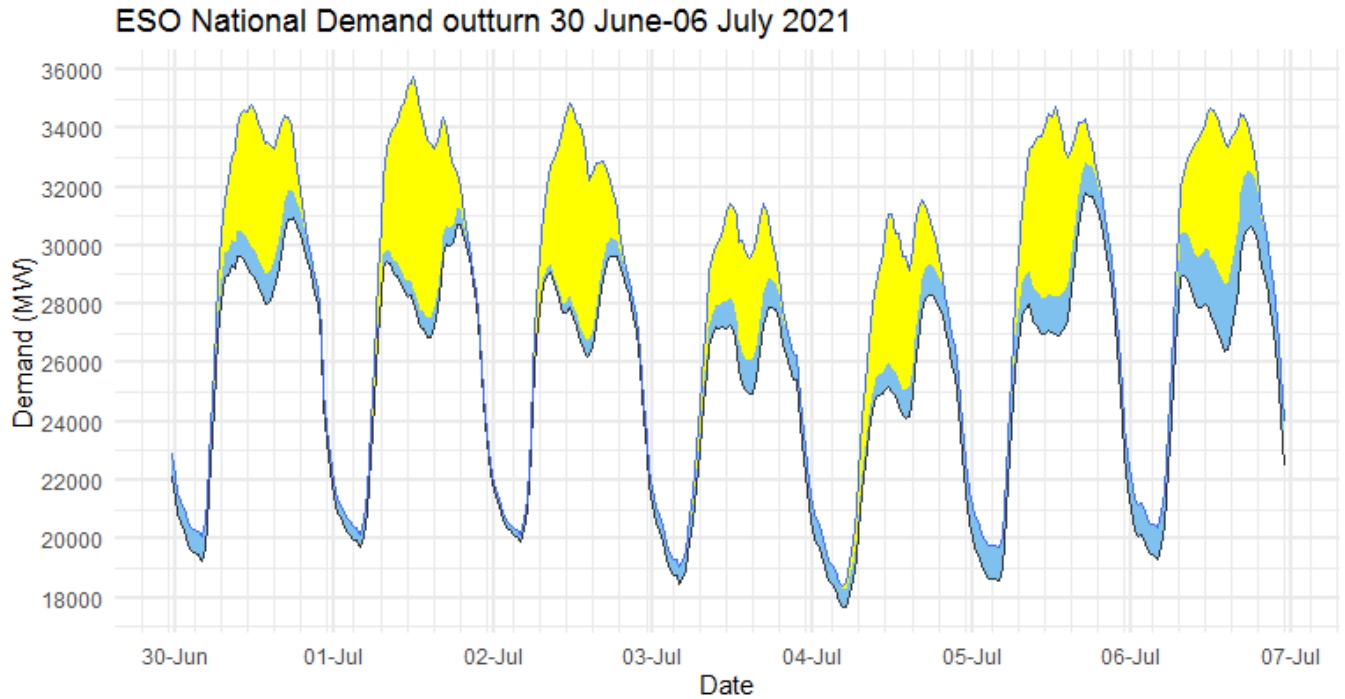
Name	Format	Last Changed	Download
GB System Inertia - 2021-2022	csv	17 hours ago	 Explore
GB System Inertia - 2020-2021	csv	6 days ago	 Explore

<https://data.nationalgrideso.com/system/system-inertia>

Protecting critical staff to maintain critical operations



Demand | Last 7 days outturn



Renewable type

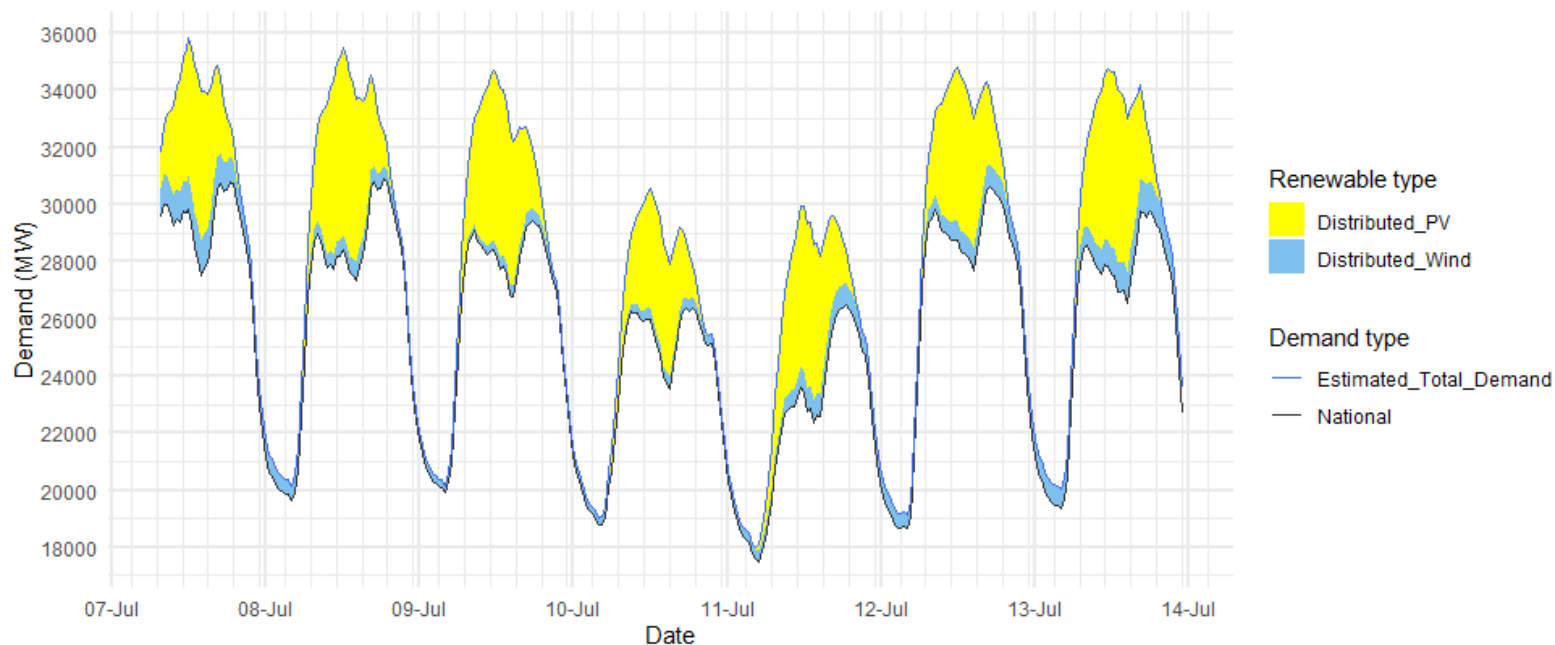
- Distributed_PV
- Distributed_Wind

Demand type

- Estimated_Total_Demand
- National

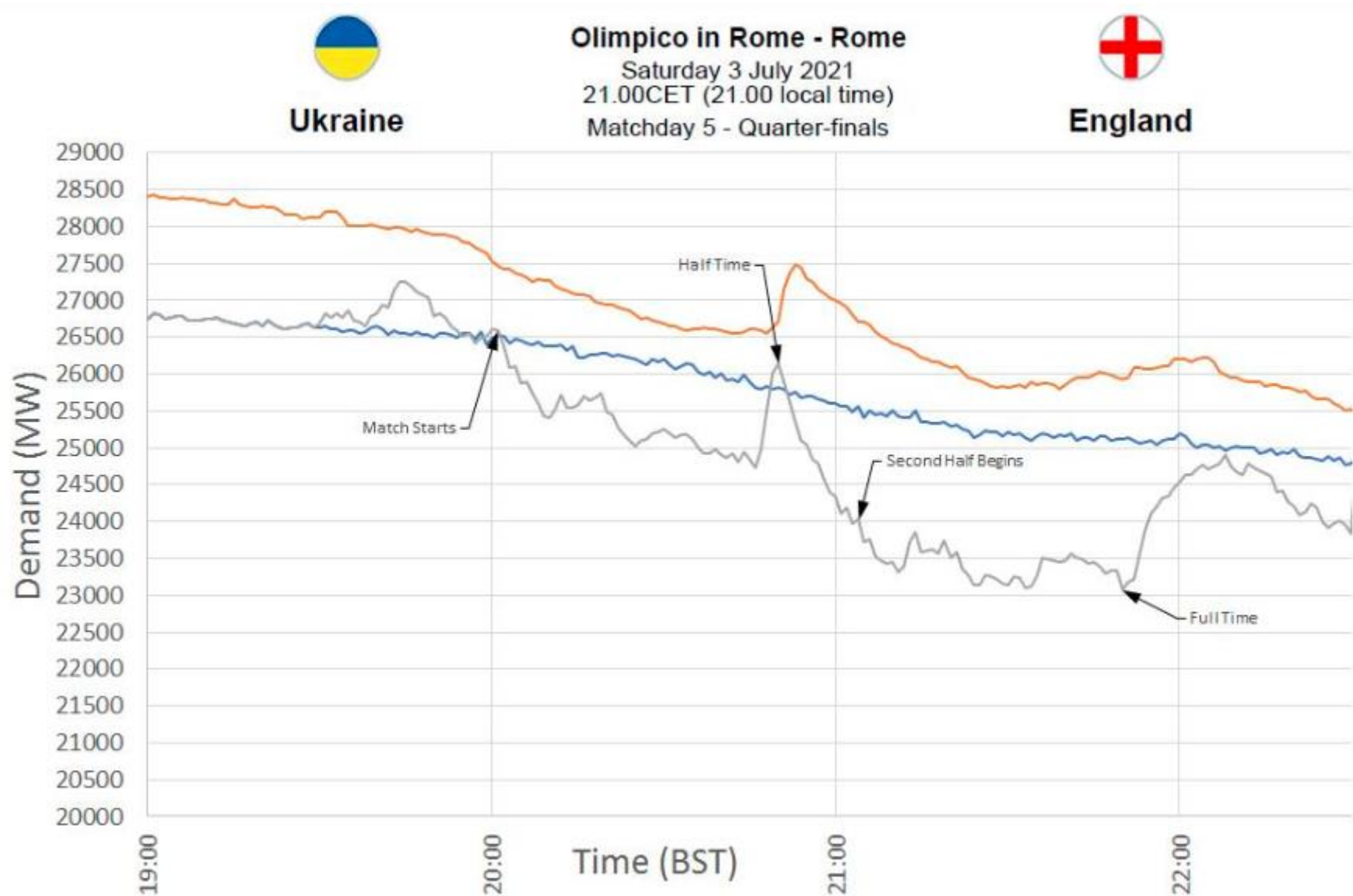
Date	Forecasting Point	FORECAST (Wed 30 Jun)			OUTTURN		
		National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
30 Jun	Afternoon Min	27.4	1.1	5.6	28.0	1.0	4.5
01 Jul	Overnight Min	20.1	0.6	0.0	19.7	0.5	0.0
01 Jul	Afternoon Min	26.9	0.7	6.2	26.8	0.7	6.1
02 Jul	Overnight Min	20.1	0.3	0.0	19.9	0.2	0.0
02 Jul	Afternoon Min	25.9	0.5	6.1	26.2	0.5	5.9
03 Jul	Overnight Min	18.9	0.3	0.1	18.5	0.6	0.0
03 Jul	Afternoon Min	22.6	0.6	4.5	25.0	1.2	3.6
04 Jul	Overnight Min	17.9	0.4	0.2	17.7	0.6	0.2
04 Jul	Afternoon Min	23.0	0.8	4.5	24.1	1.0	4.6
05 Jul	Overnight Min	18.3	0.8	0.0	18.6	1.1	0.0
05 Jul	Afternoon Min	27.0	1.4	4.3	26.9	1.3	6.1
06 Jul	Overnight Min	18.9	1.2	0.0	19.3	1.1	0.0
06 Jul	Afternoon Min	24.9	1.8	6.0	26.4	2.3	4.9

Demand | Week Ahead



		FORECAST (Wed 07 Jul)		
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
07 Jul	Afternoon Min	27.5	1.3	5.2
08 Jul	Overnight Min	19.6	0.5	0.0
08 Jul	Afternoon Min	27.3	0.6	5.7
09 Jul	Overnight Min	19.9	0.2	0.0
09 Jul	Afternoon Min	26.7	0.4	5.0
10 Jul	Overnight Min	18.8	0.2	0.1
10 Jul	Afternoon Min	23.6	0.4	3.9
11 Jul	Overnight Min	17.5	0.4	0.2
11 Jul	Afternoon Min	22.3	0.8	5.5
12 Jul	Overnight Min	18.7	0.5	0.0
12 Jul	Afternoon Min	27.7	0.8	4.6
13 Jul	Overnight Min	19.3	0.7	0.0
13 Jul	Afternoon Min	26.5	1.1	5.4

Demand | EURO 2020 special event forecast Sat 3 July

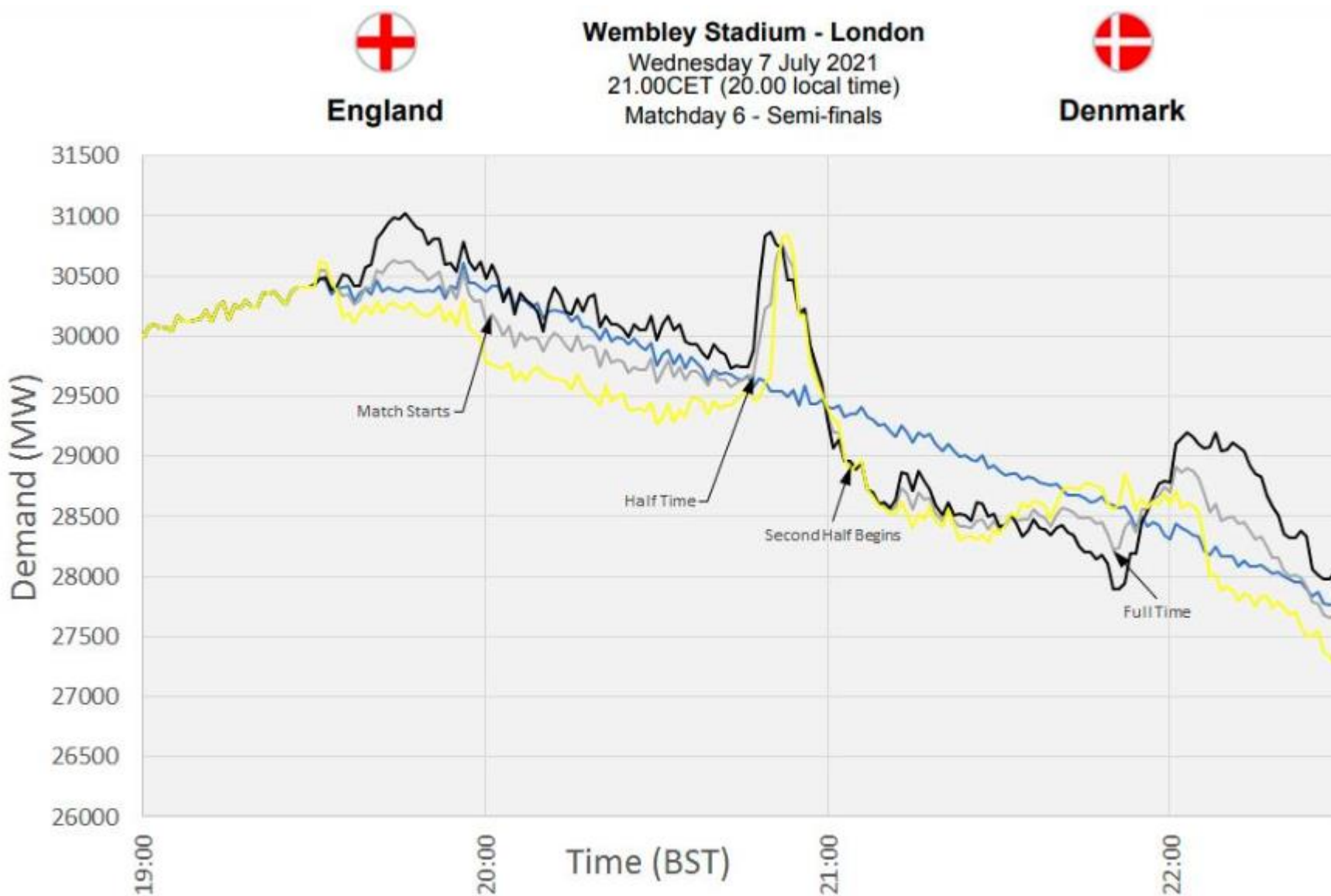


Blue line: forecast without football

Grey line: forecast with adjustments for the football match

Orange = Metering

Demand | special event forecast Wed 7 Jul; semi-finals of Euro 2020 at Wembley



Blue line: forecast without football

Grey line: forecast with adjustments for the football match

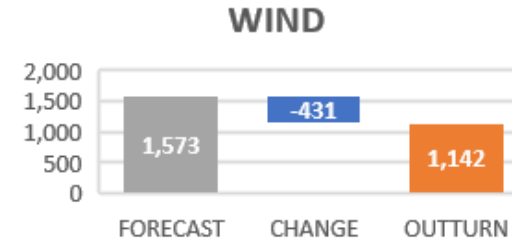
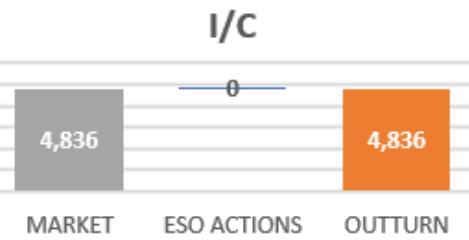
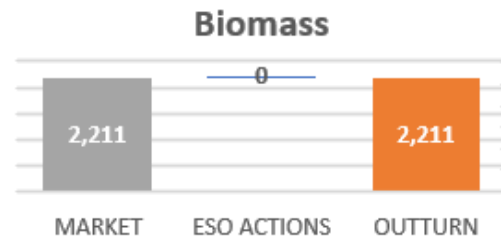
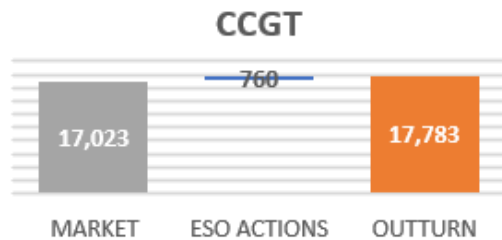
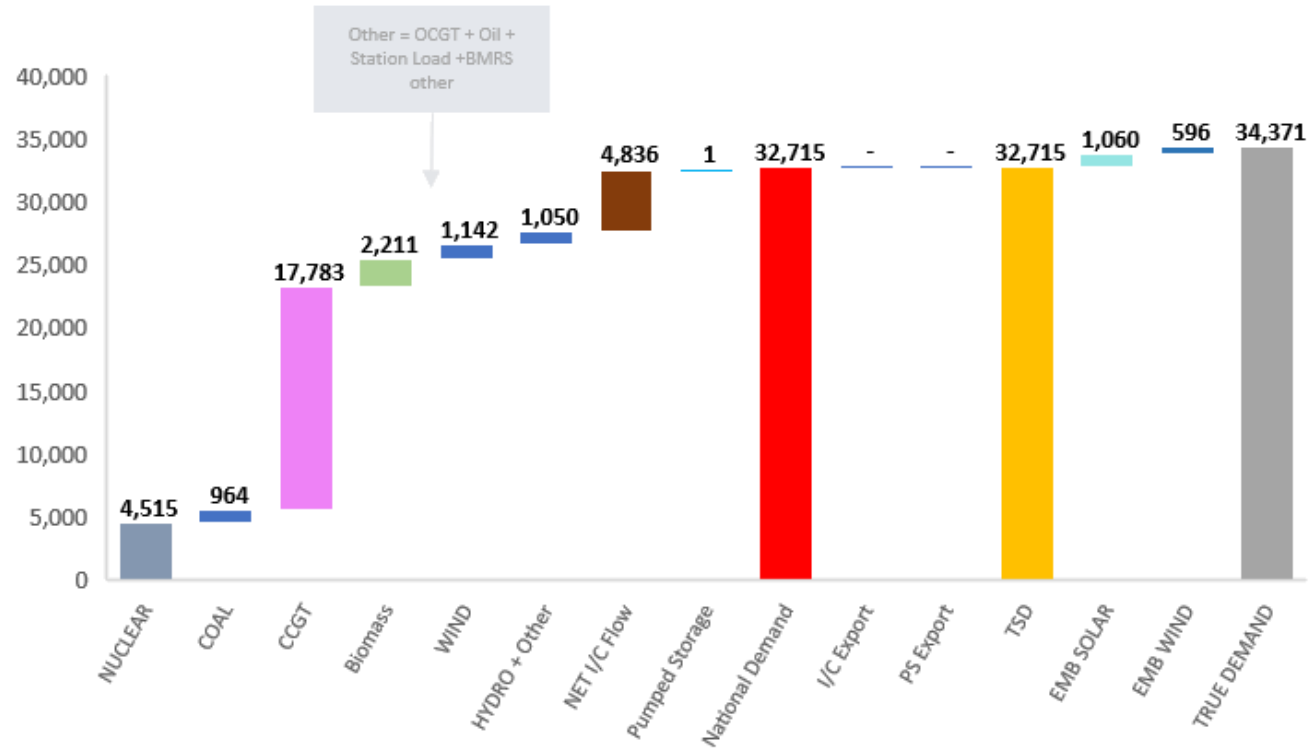
Black line: forecast with adjustments for the football match, using the Germany match as a template

Yellow line: forecast with adjustments for the football match, using the Ukraine match as a template

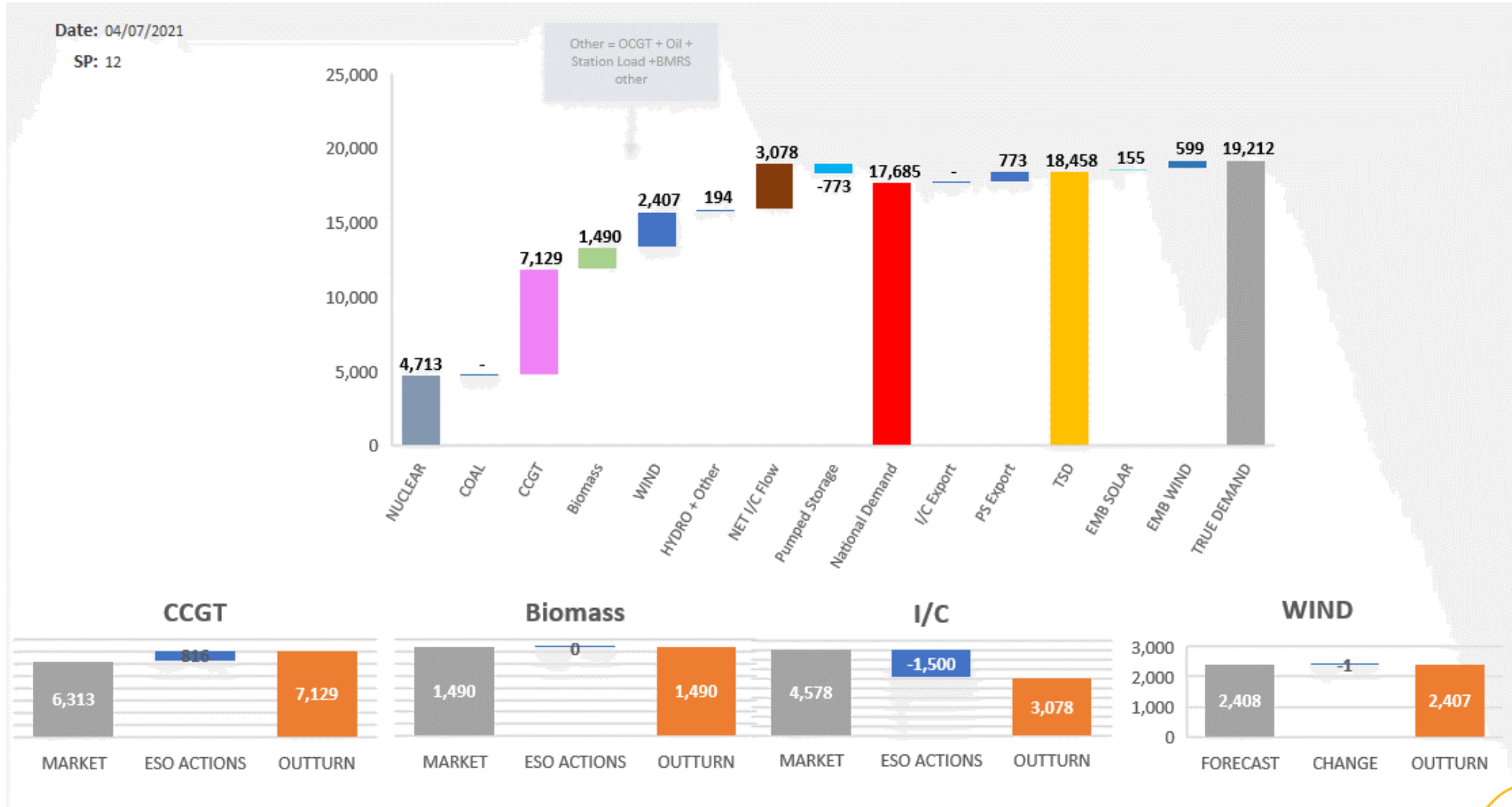
ESO Actions | Monday 28 June Peak

Date: 28/06/2021

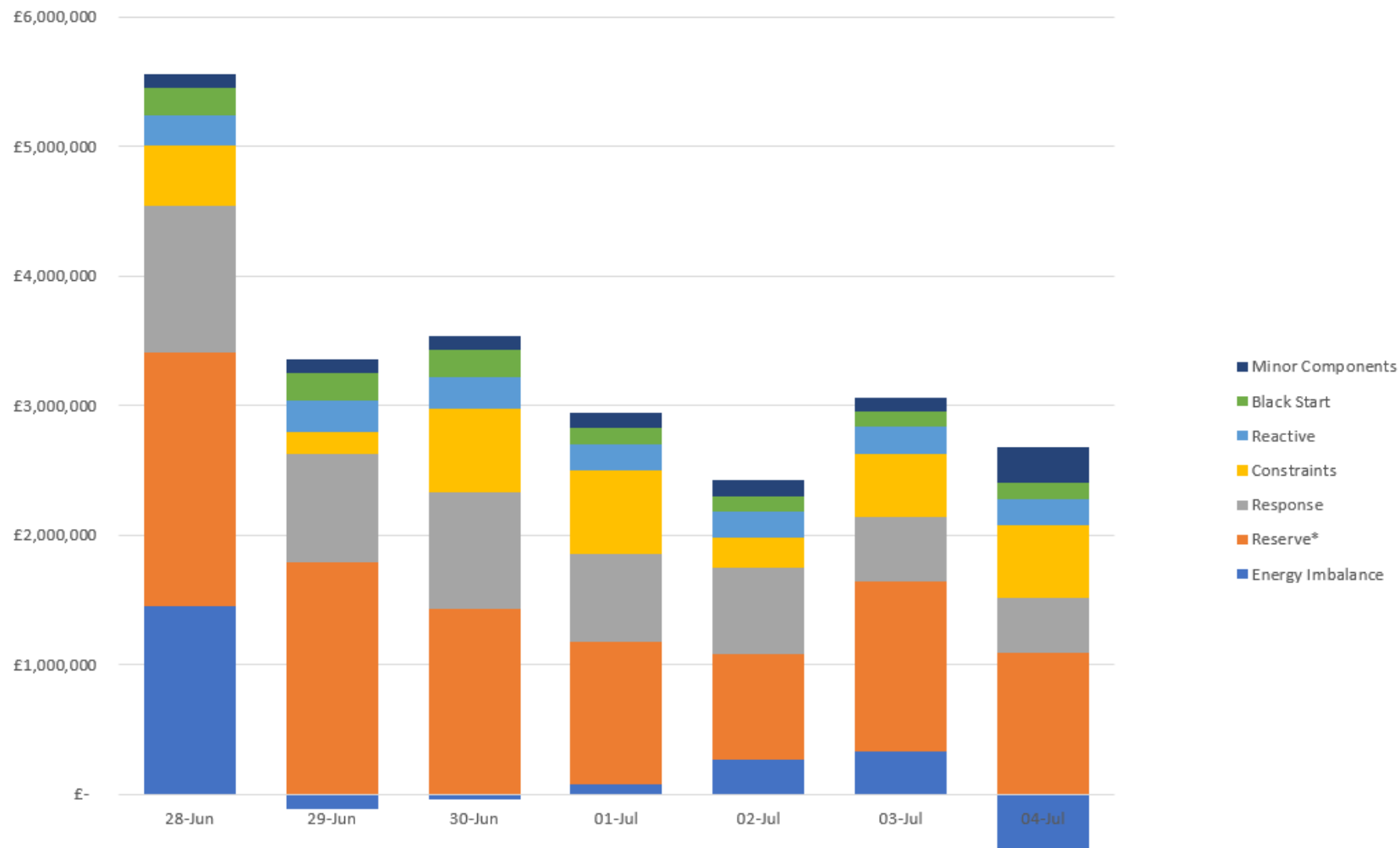
SP: 37



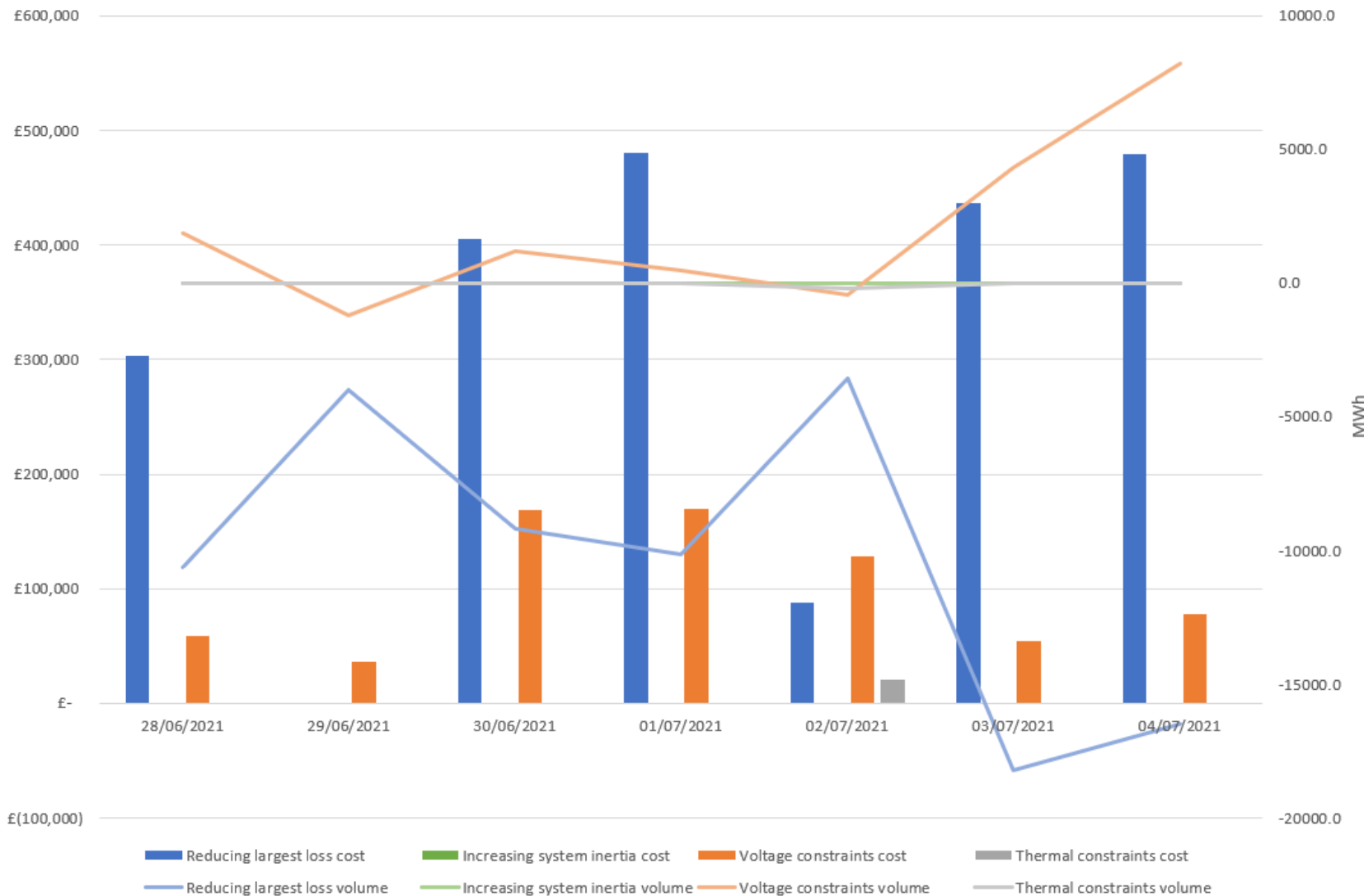
ESO Actions | Sunday 4 July Minimum



Transparency | Costs for the last week



Transparency | Constraint cost breakdown

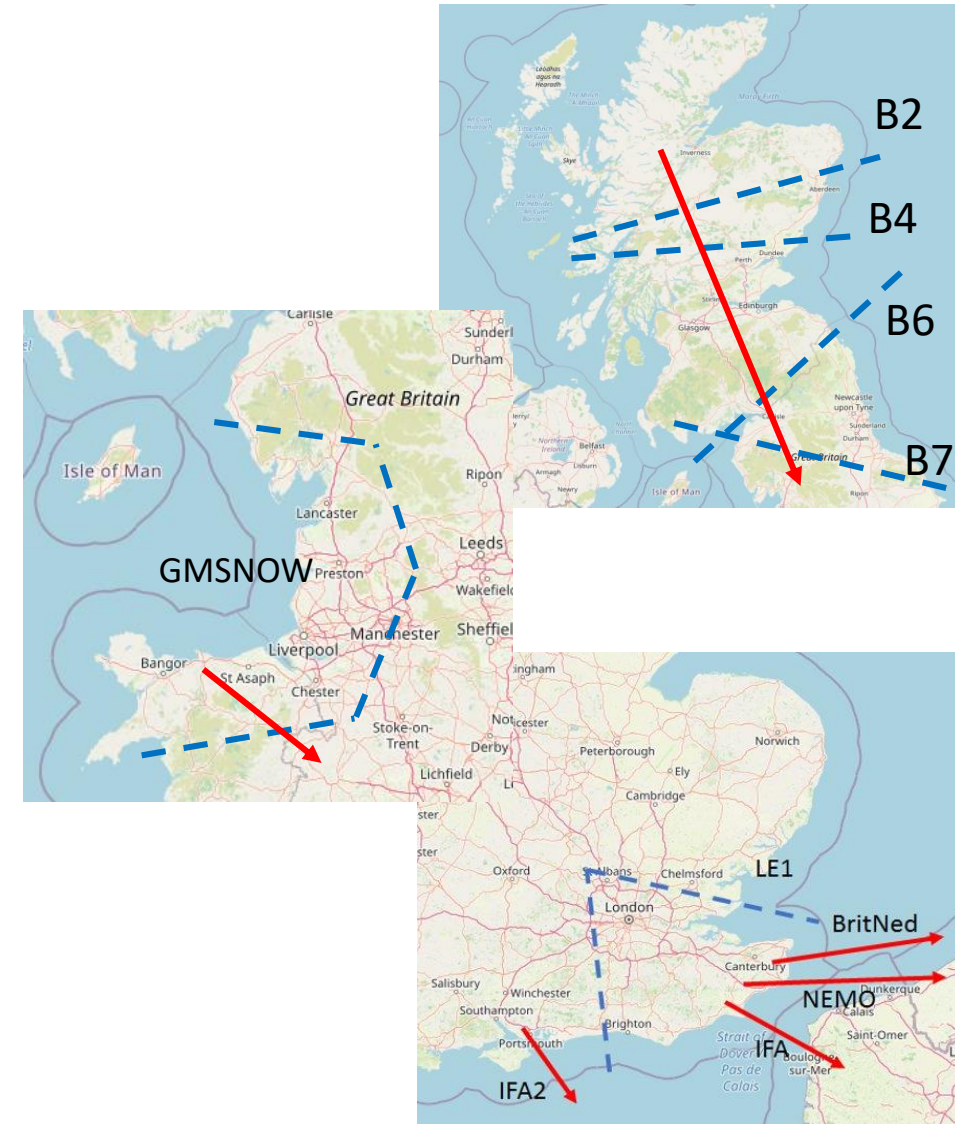
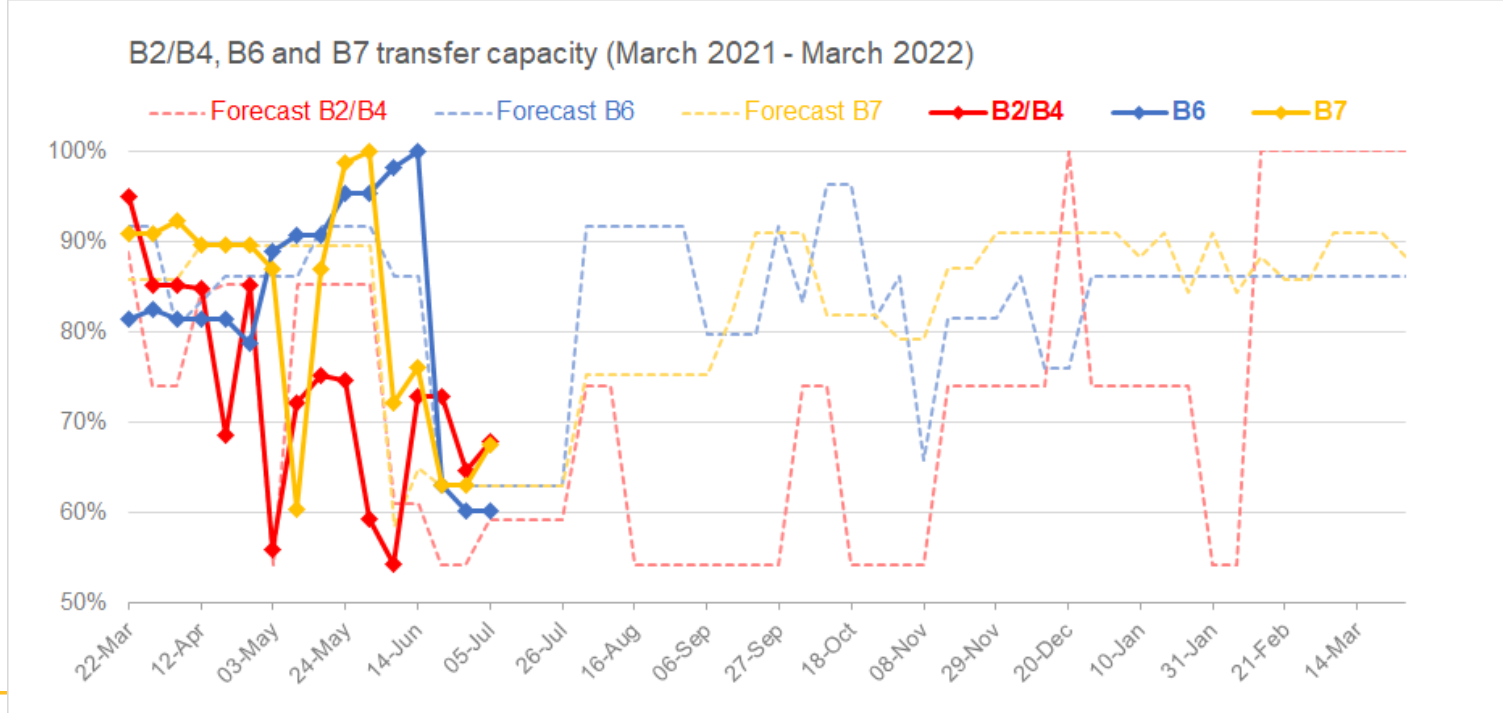


<https://data.nationalgrideso.com/balancing/constraint-breakdown>

Transparency | Thermal Constraints

	28-Jun	5-Jul	12-Jul	19-Jul	26-Jul	5-Aug	12-Jul	19-Jul	26-Jul	02-Aug
Scotland										
B6 (SCOTEX)										
B2/B4 (SSE SP2)										
England and Wales										
B7 (SSHARN3)										
(GM SNOW)										

Long term view



Q&A

After the webinar, you will receive a link to a survey. We welcome feedback to understand what we are doing well and how we can improve the event ongoing.

Please ask any questions via Slido (code #OTF) and we will try to answer as many as possible now. If we are unable to answer your question today, then we will take it away and answer it at a later webinar.

Please continue to use your normal communication channels with ESO.

If you have any questions after the event, please contact the following email address:
box.NC.Customer@nationalgrideso.com

slido

Audience Q&A Session

 Start presenting to display the audience questions on this slide.

Q&A

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