



ESO Coronavirus Preparedness

8th July 2020

nationalgrid**ESO**

Introduction

Please ask any questions via the Q&A section in Webex and we will pick them all up at the end of the session and answer those now which we can. We may have to take away some questions and provide feedback from our expert colleagues in these areas.

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

data.nationalgrideso.com/plans-reports-analysis/covid-19-preparedness-materials

Transparency

Non-BM STOR questions raised last week will be built into future transparency roadmap.

Reserve from storage trial update:

A report has now been published on the NGESO website and can be accessed here:

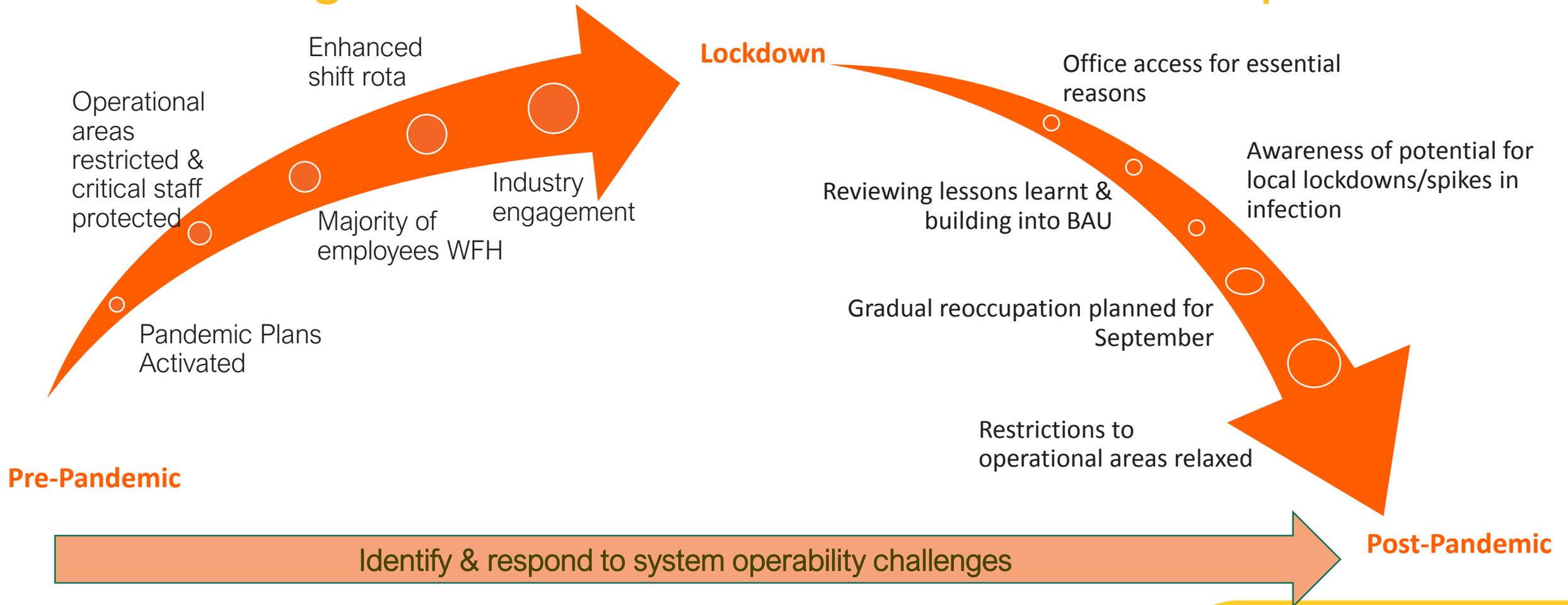
https://data.nationalgrideso.com/plans-reports-analysis/covid-19-preparedness-materials/r/trial_review_-_reserve_from_storage_in_the_bm

Key topics for this week:

Update on our Business Continuity Plans

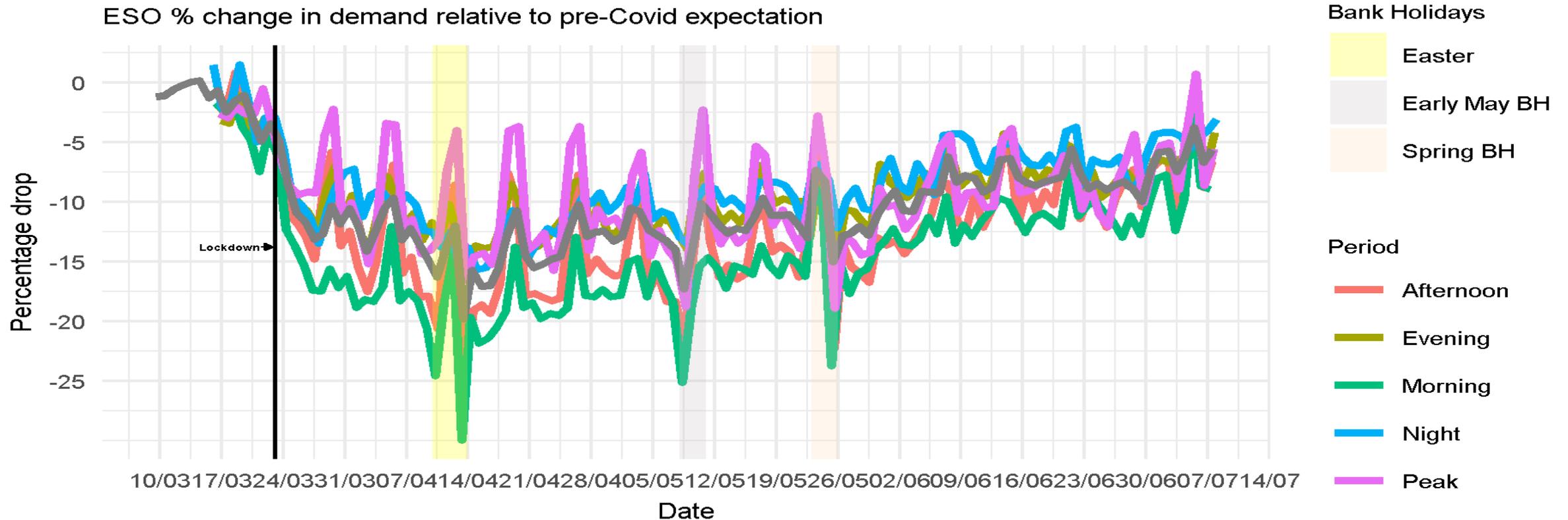
Deep dive into the low demand of last weekend and the use of ODFM

Protecting Critical Staff to maintain Critical Operations



ESO assessment of demand reduction

Graph shows % drop between what we have observed & what we would expect from our models had there was no Covid-19. Demand referred to is our proxy for the total demand in GB; not just the demand on the transmission system.

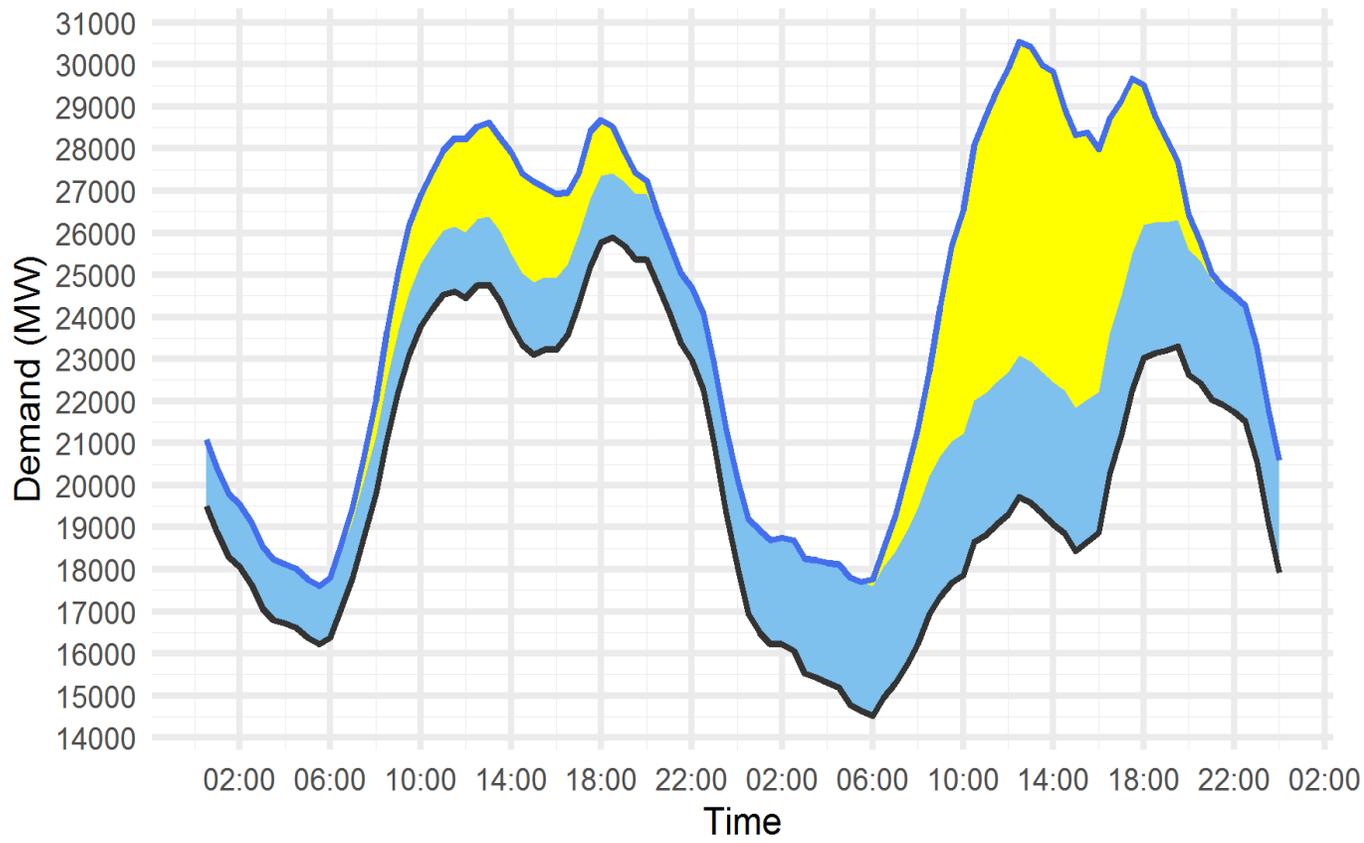


Latest 7-day rolling average overall demand suppression: 6.2%;

week ago it was 8.9%, two weeks ago it was 8.4%

Demand | Last Weekend Outturn

ESO National Demand outturn* 4th & 5th July 2020
 *ODFM instructed on 5th July



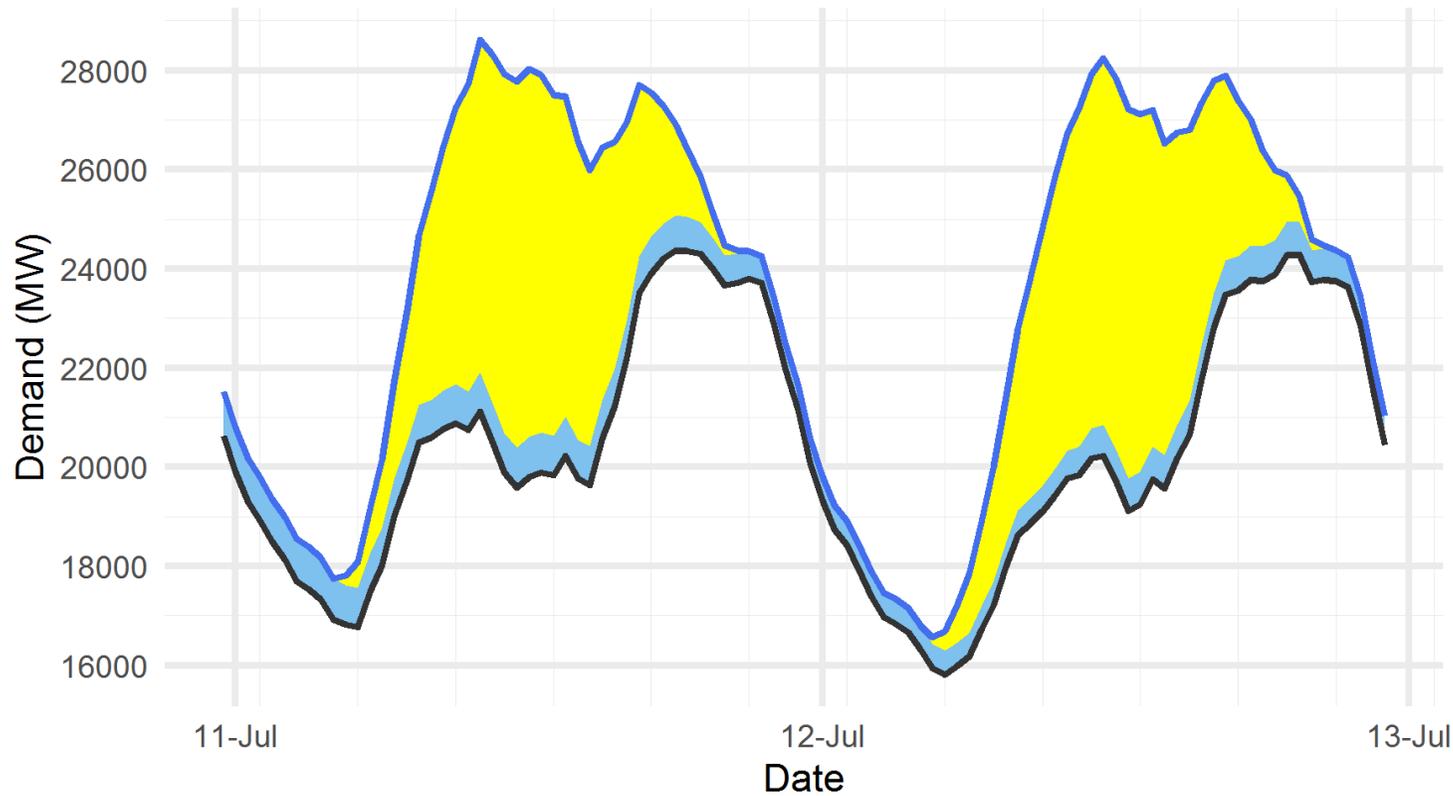
Date	Forecasting point	FORECAST (Wed 1 Jul)			OUTTURN		
		National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
Sat 4th Jul	Overnight min	15.3	1.9	0.0	16.2	1.4	0.0
	Afternoon min	20.1	2.5	3.7	23.1	1.7	2.4
Sun 5th Jul	Overnight min	14.6	2.2	0.2	14.5	3.1	0.1
	Afternoon min	17.9	2.8	6.1	18.4	3.4	6.5

- Renewable type
- Distributed_PV
 - Distributed_Wind
- Demand type
- Estimated_Total_Demand
 - National

Demand | Forecast for this Weekend

ESO Demand forecast 11th & 12th July 2020

based on the current government policies in relation to the pandemic and on the latest weather forecast



		FORECAST (Tues 07 Jul)		
Date	Forecasting point	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
11 July 2020	Overnight Min	16.8	0.8	0.5
	Afternoon Min	19.6	0.8	5.6
12 July 2020	Overnight Min	15.8	0.5	0.4
	Afternoon Min	19.1	0.6	7.4

Renewable type

- Distributed_PV
- Distributed_Wind

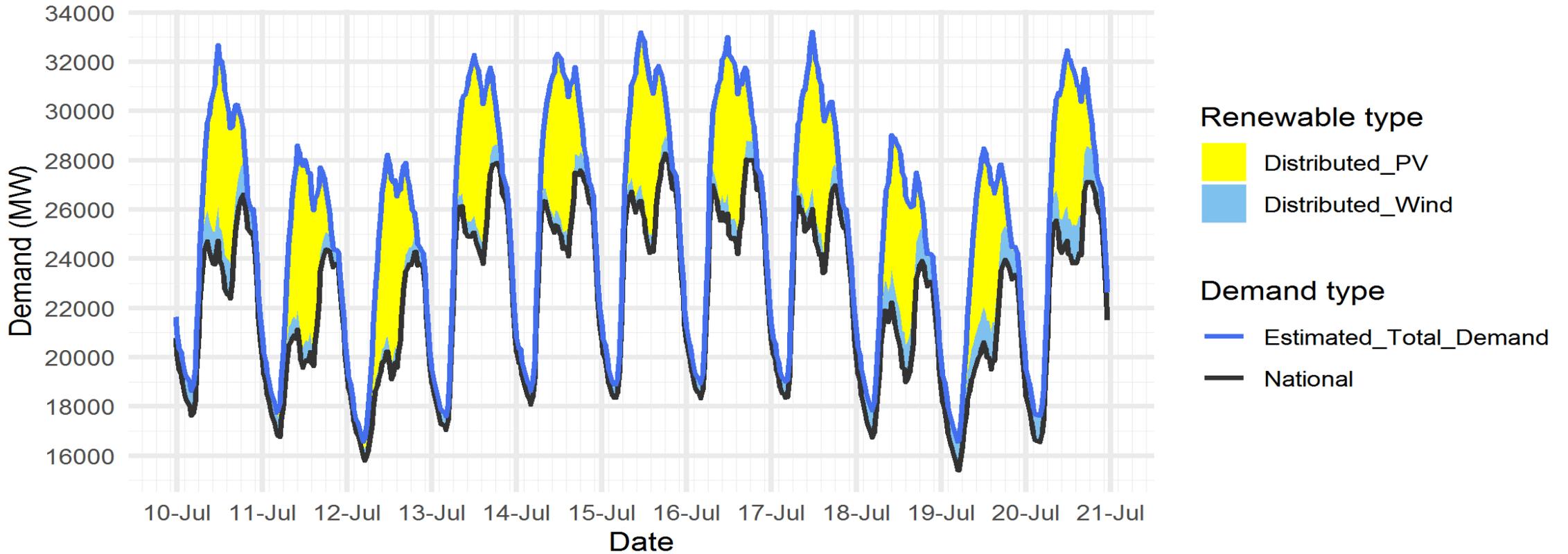
Demand type

- Estimated_Total_Demand
- National

Demand | Forecast for the 10th to 20th of July

ESO Demand forecast 10th to 20th July 2020

based on the current government policies in relation to the pandemic and on the latest weather forecast



Weekend Review | 5th July ODFM Requirement

Very low forecast demand throughout the day, due to:

- Low underlying demand for large proportion of the day
- Last weekend we observed lower demands than expected (~1.2GW), we used this to recalibrate our demand forecast
- High volume of both embedded wind and embedded solar generation – it is unusual to have this combination across large parts of GB

High volume of transmission connected wind

- Displacing conventional generation
- NGESO required to buy-on conventional generation to manage RoCoF, Vector shift and voltage stability

High reliance on interconnector trading and pumps

- Long duration of low demand and high renewable energy output, resulted in a high reliance on interconnector trading and pumping capacity
- Need to manage pumping capacity for expected long duration of low demand
- Low differential between continental and GB energy prices impacts ability to trade and increase potential for counter-trading

High level of uncertainty of renewable generation output

- Large spread of solar forecasts
- Impacting the embedded generation portion of the demand forecast and transmission connected wind output
- Uncertainty on wind output
- Downward real-time reserve and contingency held on wind, so we cannot schedule all wind off the system

Following the final assessment at D-1, a decision was made to enact ODFM between 02:00 and 16:30, with the following peak profile:

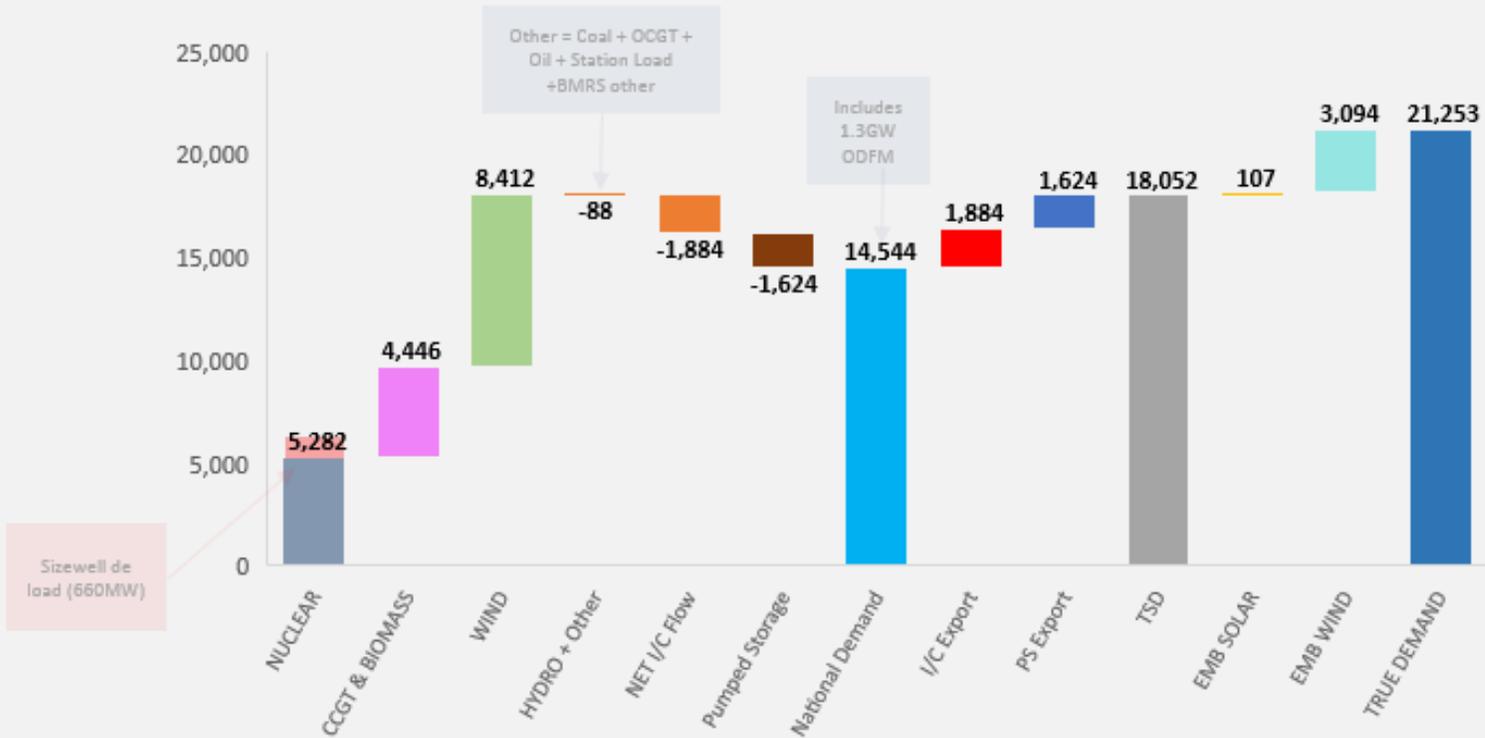
1288MW @05:00

2194MW @12:00

ESO Actions | 5th July Overnight Min

Date: 05/07/2020

SP: 12



CCGT & BIOMASS



I/C



WIND



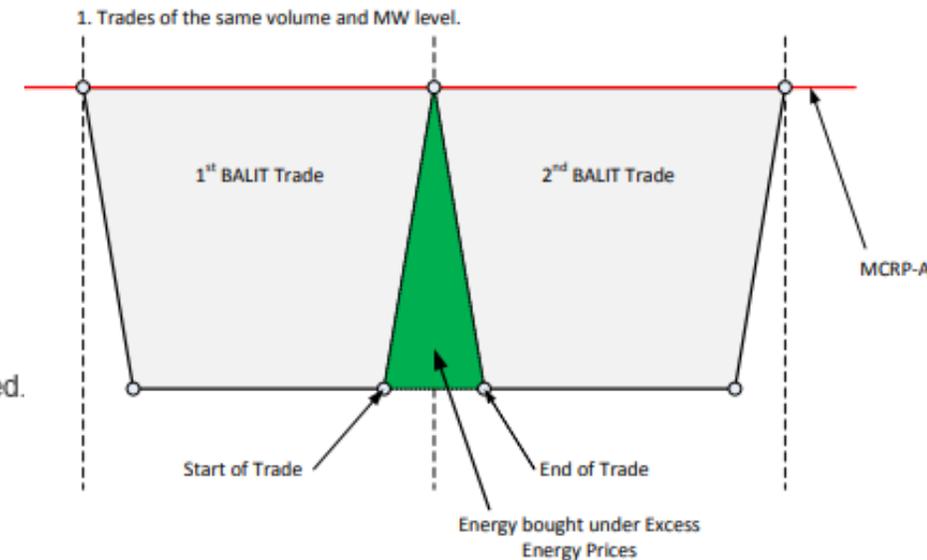
Question from Last Week

Question

We've seen >40 BMRS Warning Notices referring to SO to SO transactions over NG/RTE Interconnector outside of BALIT at 350.00Euros/MWh. What does this mean, why is it being taken outside of BALIT?

Answer

Excess Energy Prices are a mechanism to allow RTE or NGESO to 'profile smooth' the flow on the interconnector in-between consecutive BALIT trades. It is very rarely used.



ELEXON Portal Email Alert

You are receiving this email because you subscribed to receive email alerts when BMRS System Warnings are published. National Grid (time published in GMT). The System Warning is:

2020-07-07 14:11:39

NATIONAL GRID NOTIFICATION of excess energy prices used for settlement outside of BALIT for SO to SO Transactions over the National Grid/RTE Interconnector.

Prices cover 23:00Hrs Today to 05:00Hrs Tomorrow (UK local time) and are in Euro/MWh. From RTE: Offer 350.00; Bid -3.45 From NGC: Offer 350.00; Bid -180.00

Prices cover 05:00Hrs Tomorrow to 19:00Hrs Tomorrow (UK local time) and are in Euro/MWh. From RTE: Offer 350.00; Bid 0.00 From NGC: Offer 350.00; Bid 0.00

Prices cover 19:00Hrs Tomorrow to 23:00Hrs Tomorrow (UK local time) and are in Euro/MWh. From RTE: Offer 350.00; Bid -3.45 From NGC: Offer 350.00; Bid -180.00

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 the Q&A section in Webex and we will try to answer as many as possible now

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@nationalgrid.com

