

ESO Coronavirus Preparedness

13th May 2020



Recap of topic areas from the Webinar last week

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.

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

We provided an update on NGESO Business Continuity planning, including the next steps as we prepare for the recovery phase

We shared a forecast of the demand over the bank holiday weekend and a summary of how we assess and resolve periods of low demand.

Followed by an update on the downward flexibility product (ODFM) and where it fits in the normal downward regulation actions.

You asked about NRAPMs, we will go through the process with you today

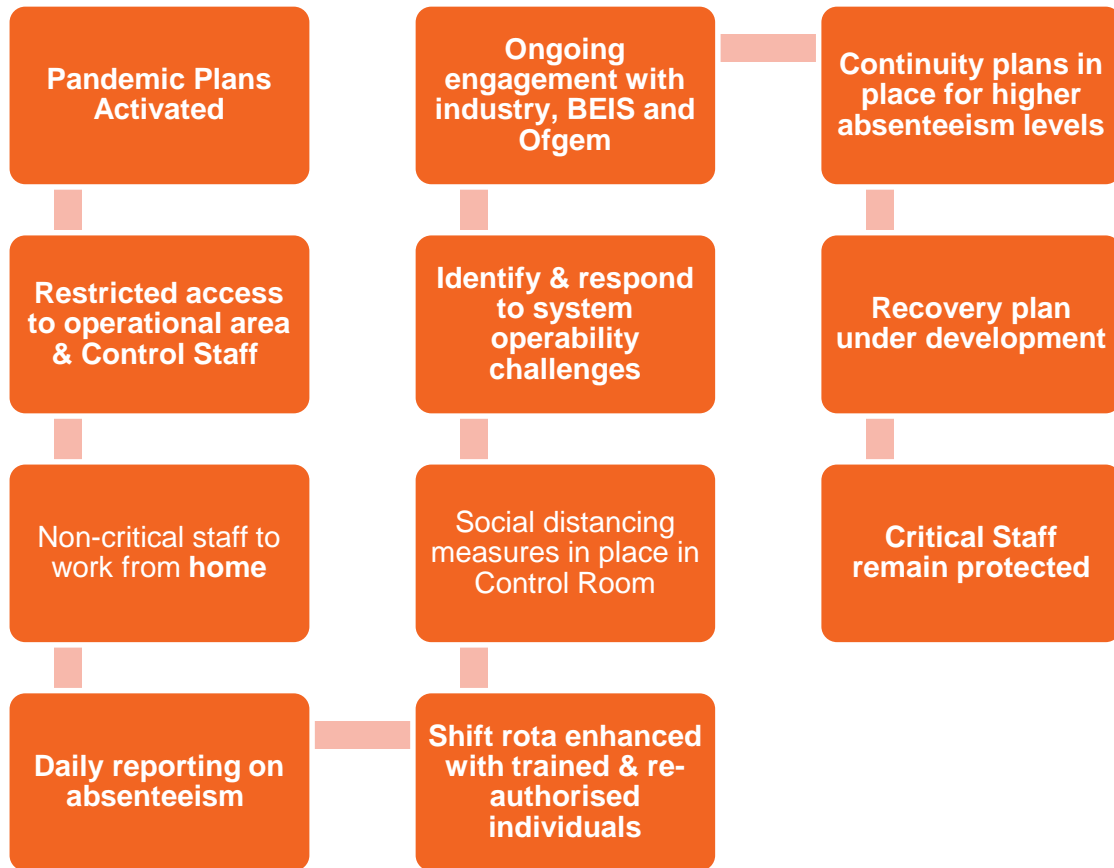
And finally, we summarised the feedback that we have received during the webinar in a 'you said; we did' slide

ACCURATE

TIMELY

FLEXIBLE

Protecting Critical Staff to maintain Critical Operations



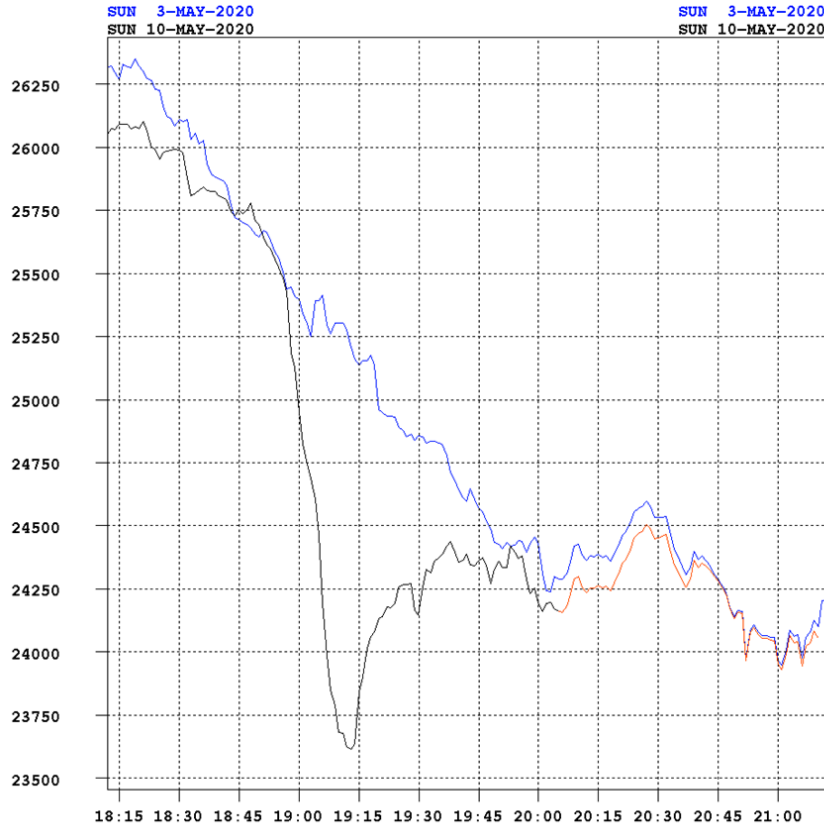
Recovery Plan

Under development across ESO for Recovery Phase

Critical staff remain protected and this will continue during Recovery

Taking the opportunity to review our ways of working and a recovery to 'new normal' rather than previous business as usual

Demand Suppression | Sunday PM Briefing

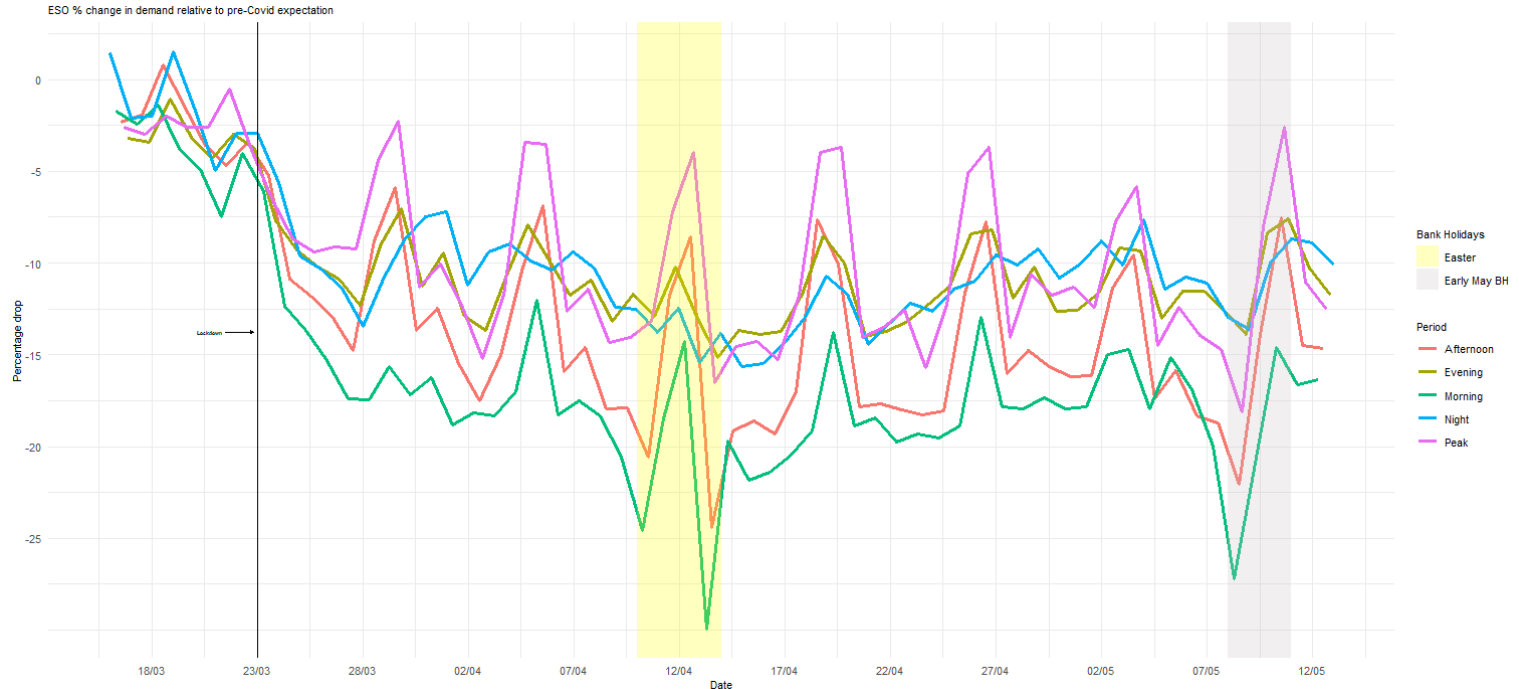


Over 1.5GW rapid demand drop off was experienced during the Prime Minister's speech to the nation at 1900hrs manging by reductions in wind and other units and an increase in pumping demand.

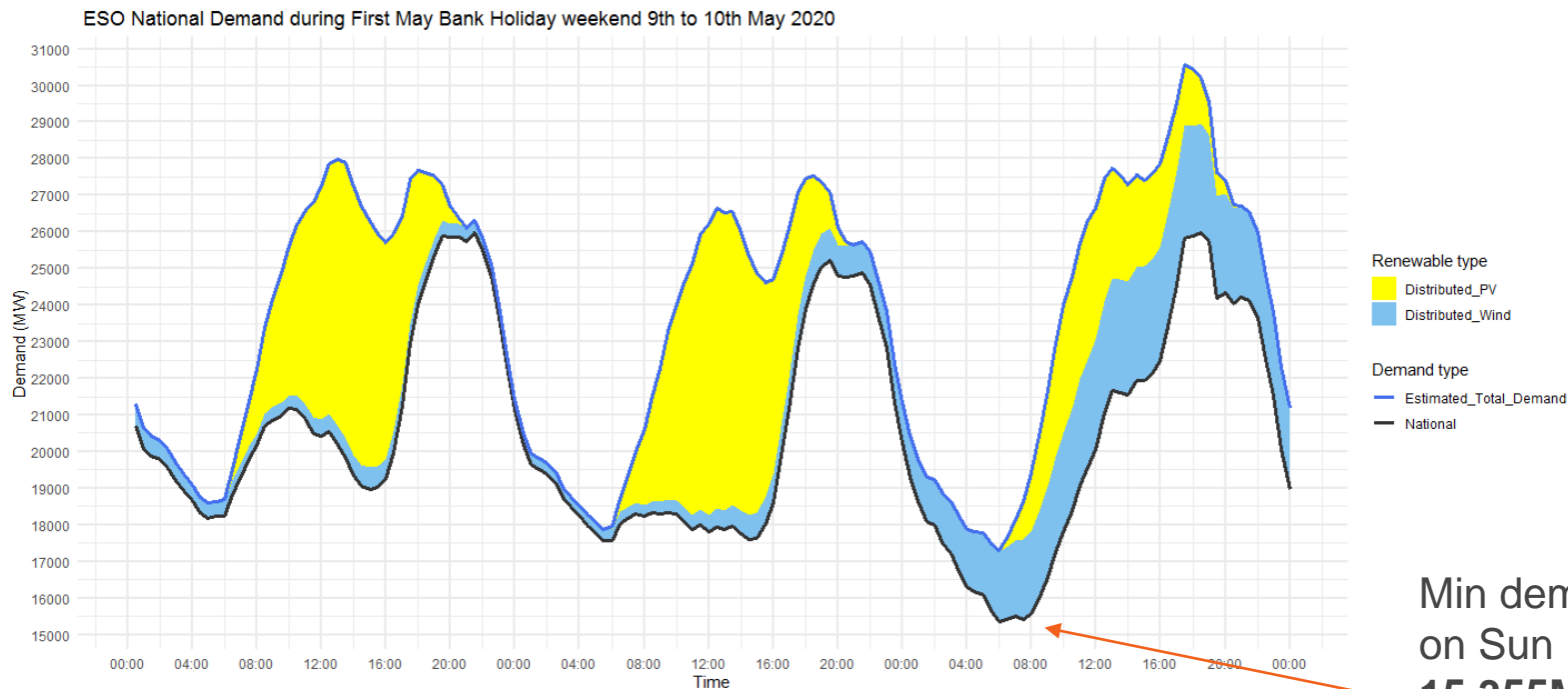
Once the speech concluded, the system demand increased by 700MW (from 23600MW to 24300MW) and demand returned to the expected levels based on the previous Sunday.

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.



Bank Holiday Weekend (8th to 10th May) | Outturn



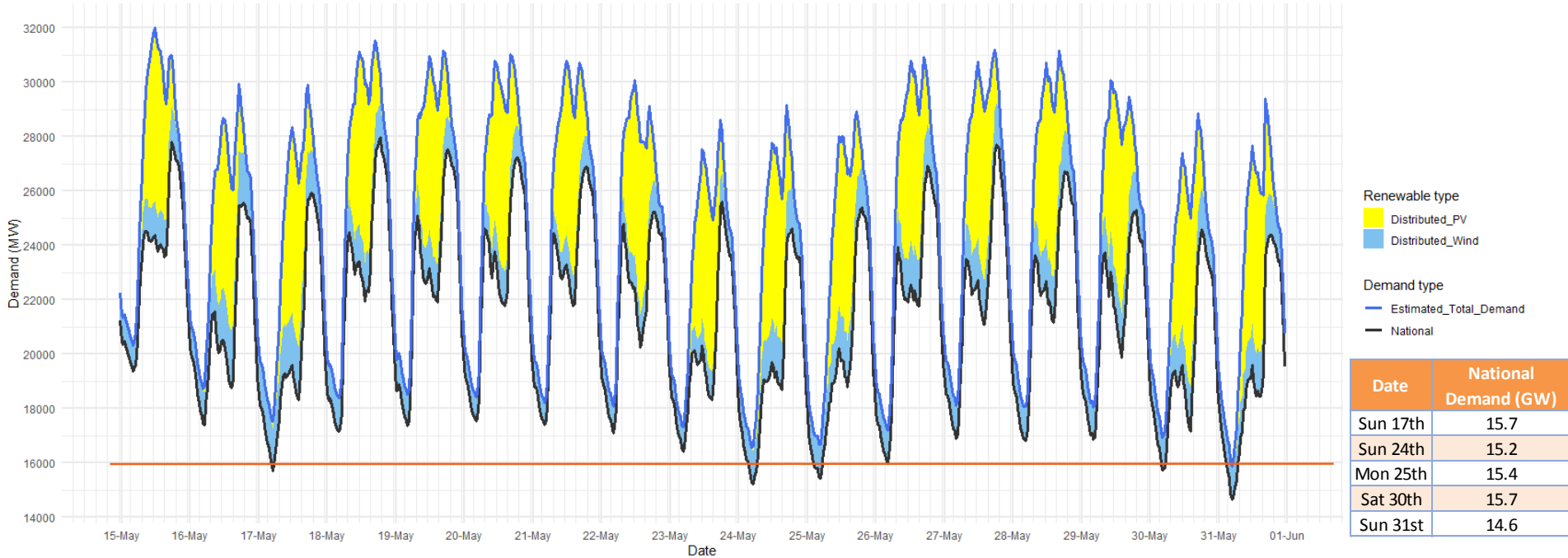
Bank Holiday Weekend | Low Demand Point



*The numbers on these graphs are for indicative purposes only.

ESO Forecast from Fri 15th to Sun 31st May

ESO Demand from Friday 15th May to Sunday 31st May 2020
based on the current government policies in relation to the pandemic and on the latest weather forecast



What have we done | Sizewell de-load contract

Cost reflective contract with EDF Energy to cap the output of Sizewell B nuclear power station to 19th June, with option to extend further through the summer, if needed

The agreement, which will run in parallel to the ESO's existing balancing of all forms of electricity generation, is a more cost efficient and secure outcome for consumers.

It also gives additional options to the ESO's control room engineers to manage the key properties of the electricity system such as stability, frequency and voltage.

The cost of the contract will not feed into cash-out (neither does ODFM) but will feed through to BSUoS

Any firm contracts that are signed during this period will be socialised across all active periods, for example ODFM these will be short periods, for larger one-off contracts these will be socialised across the duration of the contract.

Any firm services that the ESO contracts is subject to rigorous cost benefit assessment to ensure other actions and costs are avoided.

What have we done | Super SEL | Update

Date	Unit	Reduction Level
28/03/2020	DRAXX-2	100
28/03/2020	DRAXX-1	100
20/04/2020	DRAXX-1	100
21/04/2020	DRAXX-1	100
28/03/2020	GRAI-6	95
28/03/2020	GRAI-6	95
22/04/2020	GRAI-6	95
28/04/2020	GRAI-6	95
29/04/2020	GRAI-6	95
10/05/2020	GRAI-6	95

We have agreed to a contract with Saltend and will update our [website](#) with details of any further contracts.

We are working on providing greater transparency on the use of this service to include details on start/end time, price and volume. We will provide a further update on next week's call.

What have we done | Optional Downward Flexibility Product | Update

30 units have signed onto the service terms and engagement to sign more providers up continues

The service was instructed for maximum effective delivery of 238 MW between 04:00 and 07:00 on 10-05-2020. The BMRS Demand forecast was adjusted to account for this service.

Market communication related to service instructions will be published via:

<https://extranet.nationalgrid.com/sonar/>

Please sign up for notifications

Further details related to the service can be found in the [market information report](#)

An ODFM specific webinar will be held on Thursday 21st May at 14:00 we will be issuing an interactive guidance document to address FAQs by Friday

Optional Downward Flexibility Management

Optional Downward Flexibility Management webinar

Thursday 21 May 2020 | 14:00

Meeting number (access code): 595 153 860

Meeting password: AasE2V7Wph3

[Join meeting](#)

+44-0800-376-8336 UK Toll Free

+44-20-7108-6317 UK London Toll

[Global call-in numbers](#)

What have we done | Optional Downward Flexibility Product | Update

All units are assessed in line with the following principles:

- Assess whether the volume is accessible to NGEN due to system constraints
- Units restricted due to network constraints are rejected
- Assess whether the volume is available during the period of our requirement
- Reject all bids which cannot deliver in the settlement periods for which service is required.
- Bids are ranked according to their effective price (£/MW/hr / NGEN forecast load factor).
- Assess the ramping times for units and any additional costs incurred from this
- Accept bids in effective price order until the requirement is met.
- All other bids above the requirement are rejected.

NRAPM | Summary

What is it?

Grid code warning (BC1.5.5) – Negative Reserve Active Power Margin

It is used to notify the market that NGENSO is unable to despatch plant to a minimum required number by normal market means

What is included?

The period for which the warning is applicable

The Bid Volume Shortfall (MW)

Time of next review

How do we notify?

A copy of the NRAPM is faxed to:

Generators, Embedded Customers and Network Operators

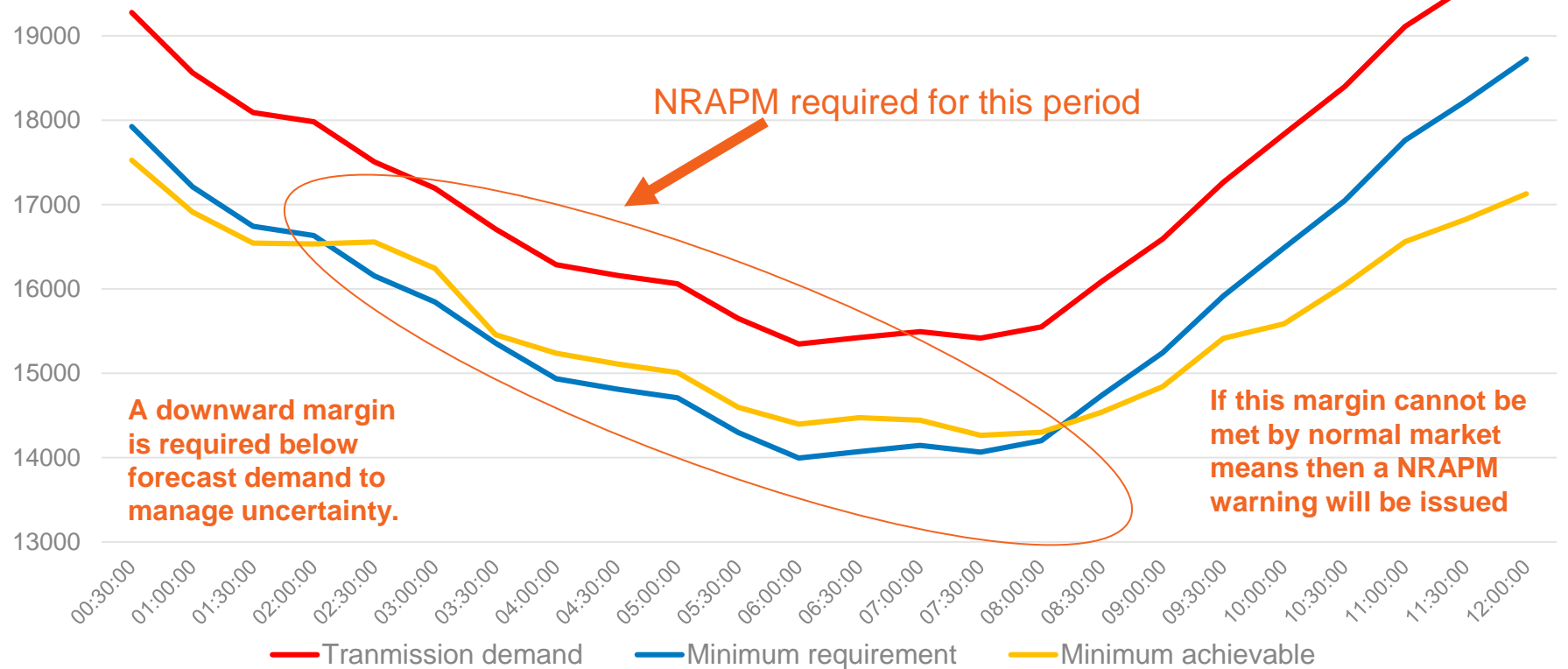
A warning message is posted on BMRS, which is available on BM Reports System Warning:

<https://www.bmreports.com/bmrs/?q=transmission/systemwarning>

What is the expected response from participants?

Requests providers to review flexibility and resubmit any revised flexibility to ESO

NRAPM | Requirement



Q&A

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

nationalgrideso.com

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Gallows Hill, Warwick, CV346DA

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