



# Frequency response reform webinar

21 September 2023

The webinar will start shortly. Attendees' microphones are muted with cameras off to minimise disruption. Please post comments or questions using the Teams chat function and these will be answered in our Q&A at the end.

**Please note that the webinar will be recorded; the recording and the slides will be published online.**

# Agenda

R2 consultation update and summary

Timelines

Release 2 further work

Future engagement

Q&A session

# Release 2 consultation update and summary



## Overview of changes (1 of 2)

Topic and Summary	ESO comments	Changes/update made
<b>Data derived baselines</b> Clarity and timelines requested Definitions unclear	Clarity and indicative timelines shared Clarified intentions for definition	No changes requested Updated definition for clarity
<b>State of energy management</b> Broadly appreciated additional detail Small changes requested	Further discussions held	Small changes considered and made
<b>Deadband operation</b> Request made for allowing operation through the deadband for synchronous plant	Reviewed and although some benefits could be recognised there are concerns which should be considered for other technology types and impacts of allowing all units to choose this	Requested change not made

## Overview of changes (2 of 2)

Topic and Summary	ESO comments	Changes/update made
<b>Heartbeats</b> Questions on requirements for BM heartbeats	Clarified intentions for this	Withdrew proposal for changes for BM
<b>De-registration</b> Concern over potential usage and lack of clarity for intentions Support for robust market monitoring	Clarified intentions and communicated planned usage	Updated wording to reflect intended usage

## Overview of additional topics

Topic and Summary	ESO comments	Changes/update made
<b>ABSVD</b> Requests for updates on timelines for alignment of BM and nBM	Shared anticipated timelines recognising number of pre-requisites	Update provided
<b>OBP and Q&amp;S reserve</b> Concerns expressed	Lines shared for plans for services	No changes requested
<b>Availability</b> Questions on negative pricing, partial availability and gaming	Clarification provided in line with EAC	No changes requested
<b>Ramp rates</b> Requested clarification on timelines and process for change	Confirmed planned timelines and that reasonable notice would be given	No changes requested
<b>Arming/disarming</b> Request for examples and details on expectations with EAC stacking	Clarity and examples provided	No changes requested

# Guidance document

We have created a new provider guidance document for all of the dynamic frequency response services

We aim to update this on a monthly basis, and are always keen to hear your thoughts.

## Updates included in Version 4:

Performance Monitoring (Arming/Disarming)

Performance Monitoring (Stacking)

Energy Requirement and Duration

Ramp Rates

Instruction Codes updated and examples added

Maximum Capacity added to Service Overview

## Updates included in Version 5:

Start audit of legacy documents

Further consolidation of the older guidance documents into the new version

## Long Term Goal:

One go to document for all things frequency response

Get in touch: [Box.FutureofBalancingServices@nationalgrideso.com](mailto:Box.FutureofBalancingServices@nationalgrideso.com)

Latest version: <https://www.nationalgrideso.com/document/276606/download>

# Timelines

A landscape photograph of rolling hills at sunset. The foreground is a field of harvested crops, possibly corn, with a path leading towards a large, dark tree on the right. The hills are covered in golden-brown vegetation, and the sky is filled with soft, glowing clouds. The word "Timelines" is overlaid in white text on the left side of the image.



# 2023-24 Timeline

Work Stream	Jul-Sep 23	Oct-Dec 23	Jan-Mar 24	Apr-Jun 24	July-Sep 24	Oct-Dec 24
Release 2 consultation						
Release 2 IT delivery						
Release 3 consultation						
Release 3 IT delivery						
Related activities						

A landscape photograph featuring rolling hills under a cloudy sky. The foreground is a field of harvested crops, possibly corn, with a path leading towards a large, dark tree on the right. The text "Release 2 further work" is overlaid in white on the left side of the image.

Release 2 further work

## In parallel to this consultation we are progressing work on a number of key topics - Ramp rate update

- We understand that ramp rate restrictions cause challenges for some service providers and restrict their ability to act quickly to capture market opportunities
- This may restrict participation in response services
- We are conducting analysis to quantify the energy recovery of the contracted battery fleet and the corresponding ramping and imbalance under varying scenarios of ramping restrictions
- This analysis will form the basis of a fundamental review of ramp rate restrictions
- We plan to share our findings and discuss the implications for reform of this restriction in November this year
- Any changes to ramp rate restrictions will be consulted on in the next available consultation which is expected to be January 2024

## In parallel to this consultation we are progressing work on a number of key topics – Changes to disarming and rearming

- The ESO Control Room has a need to be able to disarm and rearm Frequency Response units in order to manage real time operational issues that may occur on the network as a result of actions in these services
- The basic capability already exists
- We are working to improve this capability including the ability to disarm by service and the ability to send instructions outside of contracted windows
- We are keen to understand the level of effort that would be required for service providers to be able to receive and act upon disarm and rearm instructions at any time
- This information will ensure that we are able to allow sufficient time for any development work on service provider systems
- As a first step we will be issuing a survey that will include this topic in the coming weeks

## In parallel to this consultation we are progressing work on a number of key topics – Non-BMU submission of data

- There are currently challenges for ESO Control Room Engineers managing the provision of Frequency Response for Non-BMUs
- Challenges include the uncertainty resulting from the step change they see in response provision at the start of each settlement period
- This issue is due to lack of visibility of Non-BMU positions outside of contracted service windows
- An important element of improving control room visibility of Non-BMUs providing response services will be the submission of key data such as Physical Notifications and Operational metering 24 hours per day rather than in contracted windows only. (BMUs already submit the required data and therefore control room have visibility of these units)
- We are keen to understand the level of effort that would be required for service providers to be able to provide this data at all times
- This information will ensure that we are able to allow sufficient time for any development work on service provider systems
- As a first step we will be issuing a survey that will include this topic in the coming weeks
- Changes to data submission requirements will be consulted on in the next available consultation which is expected to be January 2024

## In parallel to this consultation we are progressing work on a number of key topics – Data derived metering

- We are proceeding with an innovation project to investigate methods for validating data derived metering
- The project is planned to run from this month until February 2024 at which point we will assess the accuracy and efficiency of the best solution identified and if it meets our requirements, we will proceed with productionisation and live trials

A landscape photograph of rolling hills at sunset. The foreground is a field of harvested crops, possibly corn, with a path leading towards a large, dark tree on the right. The sky is filled with soft, golden light and scattered clouds. The text "Future engagement" is overlaid in white on the left side of the image.

Future engagement

# We will be launching Monthly Response and Reserve engagement forums in November

- We have heard that service providers and other stakeholders would like the opportunity to receive updates, engage and ask questions on a more regular basis
- From November we will be holding monthly sessions to provide regular updates on Response and Reserve reform and provide the opportunity to provide feedback and ask question
- These sessions will provide a channel for 2 way engagement ensuring there is always clarity on how our market reforms are progressing
- We will be communicating dates and sign up details through the Future of Balancing Services .box



# Wider programme engagement

## EAC mock auctions and go-live

Mock auction guidance for our enduring auction capability has been communicated via our Future of balancing services email and a [guidance document](#) has been published with timescales and further details.

If you have any further questions please reach out to us at:

[Box.FutureofBalancingServices@nationalgrideso.com](mailto:Box.FutureofBalancingServices@nationalgrideso.com)

## SMP show and listen

The SMP Programme hosts a monthly Show and Listen session to share progress and get feedback.

You can register your interest in joining the sessions [here](#)



Any questions?

Please use the Teams Q&A feature  
to ask your questions





**Thank you for attending**

**Contact us:**

[box.futureofbalancingservices@nationalgrideso.com](mailto:box.futureofbalancingservices@nationalgrideso.com)