Frequency Response Market Information Report

Monthly Report – February 2024

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Introduction

We would like to inform you that this is the last release of the report. For updates related to services requirements, please refer to Data Portal datasets, relevant links can be found below. Should there be any fundamental changes in our processes related to procurement of existing services, we will release an ad hoc report informing about such changes. For any significant changes affecting the requirement, please refer to newly created dataset on <u>Ancillary Services Important Industry Notifications.</u>

The report covers essential information related to procurement of frequency response products, such as:

- Day ahead auction for Dynamic Containment, Dynamic Moderation and Dynamic Regulation (all procured as low and high).
- Day ahead auction for Static Firm Frequency Response (SFFR).

We provide our forecast requirements for these products and give guidance on how to participate in the auctions. For longer-term requirements please take a look at our <u>Operability Strategy Report.</u>

Future Requirements and New Services

We have completed the transition from FFR Primary/Secondary/High (PSH) into new (DC, DM, DR) frequency response products. The dynamic pre- and post-fault frequency response needs is being met with the new suite of dynamic products (Containment, Moderation and Regulation) since 1st December 2023.

Phase out of Dynamic FFR (DFFR)

A key milestone in frequency response reform was the phasing-out of monthly Dynamic FFR (DFFR). The final tender round 166 took place in October with final month of delivery for November 2023. We therefore do not intend to procure any more FFR services. Please refer to historical data of FFR in previous <u>Frequency</u> Report Market Information Reports.

Most deliverables under Response Reform Release 1 went live end of March 2023 and the teams are focusing efforts to deliver Release 2. Details have been shared through the webinar and Market Change Roadshows in May. The recording from the webinar is available **here** and the slides are available <u>here</u>. For further updates please refer to our <u>Future of Balancing Services Updates Newsletter</u>.

DR Requirements for April 2024

The DR requirement for next month can be found in the <u>DR requirements</u> dataset and contains the Dynamic Regulation Caps less overholding of 20 MW. We will continue to provide the forecasted requirement on Data Portal on a monthly basis. Any significant changes affecting the requirement will be communicated via <u>Ancillary Services Important Industry Notifications</u>.

DM Requirements for April 2024

The DM requirement for next month can be found in the <u>DM requirements</u> dataset and contains the Dynamic Moderation Caps less overholding of 20 MW. We will continue to provide the forecasted requirement on Data Portal on a monthly basis. Any significant changes affecting the requirement will be communicated via <u>Ancillary Services Important Industry Notifications.</u>

DC Requirements short term

The DC forecasted requirement is under continuous review and is published daily in the <u>Dynamic</u> <u>Containment 4 Day Forecast</u> dataset.

The methodology uses forecasted demand, inertia, and response volumes as well as a view of the largest losses on the system to estimate the DC requirements.

The actual requirements day-ahead are likely to change based on optimisation carried out closer to real-time coupled with greater visibility of inertia, demand, and loss sizes. For example, changes to interconnector flows from our forecasted position can lead to either an increase or decrease in our requirements if the change impacts the largest loss we need to secure.

We will continue to review and revise our requirements in line with system conditions and proactively communicate any changes to the market via this publication and the 4 day rolling DC requirements forecast. Any significant changes affecting the requirement will be communicated via <u>Ancillary Services Important</u> <u>Industry Notifications.</u>

Firm Frequency Response Requirement

SFFR for day ahead auction for April 2024

This section provides information to SFFR providers on the requirement for the auctions for delivery in April 2024.

From next month, you will be able to find month ahead requirement on DataPortal.

The requirement will maintain at 250MW for each EFA block in April 2024

Month	EFA block	Static Response Required (MW)				
		Secondary				
	EFA 1	250				
	EFA 2	250				
April 2024	EFA 3	250				
	EFA 4	250				
	EFA 5	250				
	EFA 6	250				

Figure 1: SFFR static requirements for April 2024

Market participants should note that the ESO has license requirements to operate the system economically and efficiently. This means that the SFFR volume advertised above will not always be procured through this daily SFFR market if the system need can be met through other response services or system actions at a lower overall cost to end consumers.

Dynamic Containment 12-month rolling indicative requirements.

This section provides information on requirements for Dynamic Containment Low Frequency (DC-LF) and Dynamic Containment High Frequency (DC-HF). These requirements are indicative and subject to change.

In order to improve our view of anticipated level of procured volumes for DC-L and DC-H, from November 2022 we started publishing a new 12 month rolling forecast to determine the requirement for those services. The volumes are driven by actual forecast for demand, inertia, and infeed loss sizes (including progress in the ALoMCP) and reductions in the contracted volumes of legacy services (Enhanced Frequency Response), rather than relying on historical data when determining the requirement.

DC-LF Requirements for next 12 months

Figure 3 presents an indicative view of our expected requirements for the DC-L service. This is split into volume bands which can be seen in the top middle section of the graphic. For each month the % of time we expect the DC-L requirements to fall within the associated band (based on current assumptions) for each EFA block is represented by the shading of the associated cells as described at the bottom of figure 3.

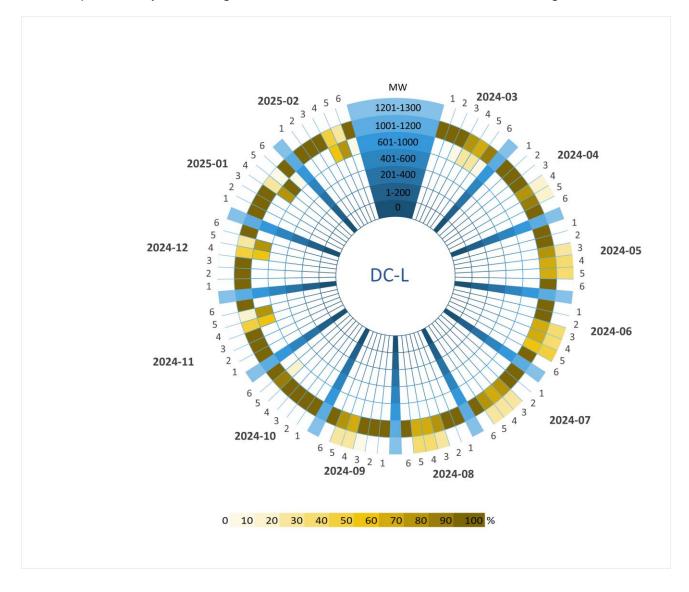


Figure 2: Indicative DC-L Requirements for next 12 months

DC-HF Requirements for next 12 months

Figure 4 presents an indicative view of our expected requirements for the DC-H service. This is split into 200MW volume bands which can be seen in the top middle section of the graphic. For each month the % of time we expect the DC-H requirements to fall within the associated band (based on current assumptions) for each EFA block is represented by the shading of the associated cells as described at the bottom of figure 4.

The DC-H requirements in Figure 4 are indicative requirements based on our actual forecast for demand, inertia, and outfeed loss sizes in next 12 months. We aim to buy enough DC-H to manage the largest outfeed losses on the system. The peak requirement generally occurs during lower demand/inertia EFA blocks.

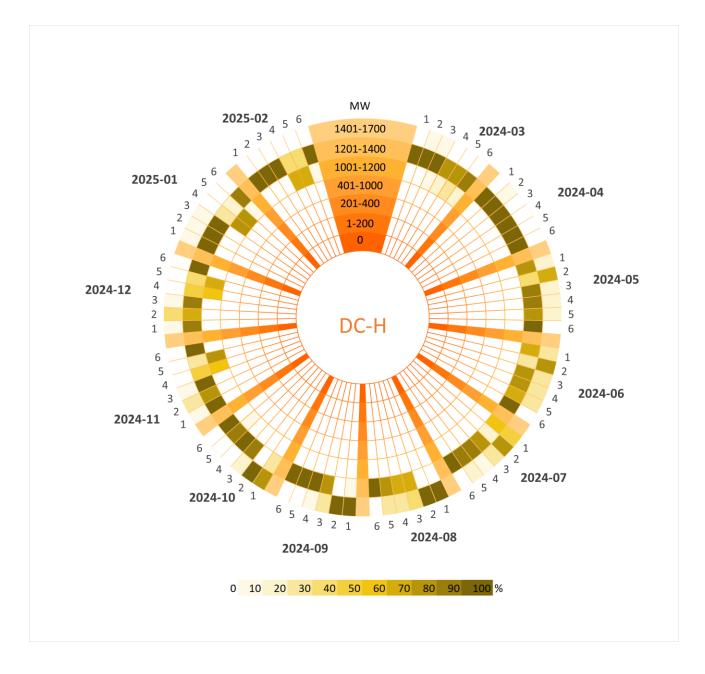


Figure 3: Indicative DC-H Requirements for next 12 months

4 Day Ahead Forecast

You can find daily updates on the ESO Data Portal.

Related Data & Information

Information related to the service including how to participate can be found on the <u>Dynamic Containment page</u> of the ESO website.

DC Block Orders Master Data, DC Results by Unit Master Data, DC Results Summary Master Data and DC Linear Orders are updated daily with day-ahead results on the <u>ESO Data Portal</u>.

We have published the data for the DC charts above here.

Response Dashboard

The current suite of Response services (DC, DM, and DR) is being procured via the Enduring Auction Capability (EAC) platform. The <u>previous results page</u> will no longer be updated but will retain the historical data.

An <u>interactive Power BI response dashboard</u> which is refreshed daily provides an accessible way to explore the auction results for DC, DR and DM.

Below screenshot covers the data for last month's results January 2024.

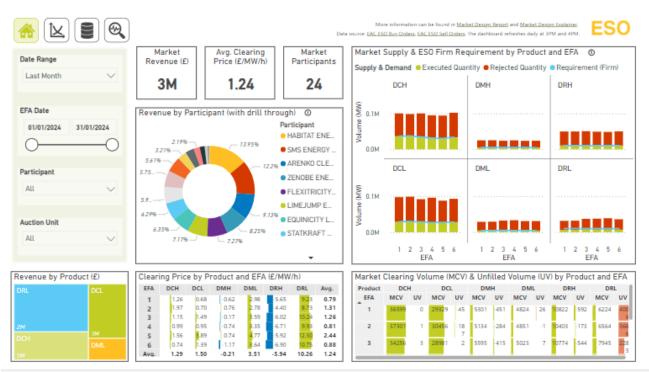


Figure 4: Interactive DC, DM, and DR dashboard

Appendix 1: SFFR Supporting Information

Procurement Rules

The Procurement Rules for the Static FFR service can be found on the ESO website.

Submissions and Results

Procurement of SFFR takes place across the standard 6 EFA blocks. Bids must therefore only start, and end, at the following times: 2300, 0300, 0700, 1100, 1500 and 1900. Submitted bids must have a minimum window availability of 4 hours in line with EFA blocks.

Please note that the gate opens 14 days before Service Day and bids can be submitted during that time until gate closure at 11:00 am on the EFA day immediately preceding the Service Day.

The below graphic shows the definitions related to Auction Timings as contained within the Procurement Rules.

The Auction Results Time is defined in the Procurement Rules as 17:00, this is a 'no later than' expectation.



Figure 6: SFFR timeline

*All times are UK local times (BST or GMT)

The full set of SFFR results and Buy Orders are published daily after auction is cleared and can be found on the <u>ESO Data Portal</u>. We endeavour to publish the results promptly after auction clears at 11:00.

Guidance and Data

Related Data

The following information is published on the ESO Data Portal:

Select the link to view the new dataset and subscribe to receive the latest updates by email:

- Ancillary Services Important Industry Notifications
- Live System Data
- Historic Frequency Data
- Firm Frequency Response (FFR) Post Tender Reports
- Firm Frequency Response Products Market Information

Other Useful Links

- Register for Future of balancing services updates
- ESO Operational Transparency Forum
- -

Appendix 2: Dynamic Containment 12-month rolling indicative requirements – detailed information.

The forecast is split into volume bands. For each month, EFA block and product, the % of time we expect the requirements to fall within the associated band (based on current assumptions).

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