Firm Frequency Response (FFR) Market Information Report for Apr-19

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Key Points

This Market Information Report is relevant for tenders submitted in Mar-19 for delivery in **Apr-19**

Tenders from eligible service providers for Firm Frequency Response should be submitted on **Fri 01-Mar-19** (1st business day) for all tenders.

National Grid will notify service providers of the outcome of the tender assessment, and preliminary nominations, by **Mon 18-Mar-19** (12th business day).

From January 2018, non-compliant tenders will be rejected prior to assessment.

Providers must use the template provided in the Ariba system to tender in for FFR. Use of any other template or submissions via e-mail will not be accepted.

In line with the standardisation outlined in the Product Road Map, procurement of FFR will only take place across the standard 6 EFA blocks. Tenders must therefore only start, and end, at the following times: 2300, 0300 0700 1100 1500 1900. Submitted tenders must have a minimum window availability of 4 hours in line with EFA blocks.

Please note that this is a month ahead only tender. Tenders should therefore be submitted for Apr-19 delivery.

The details regarding the dates, times and dial in details for the upcoming FFR Result WebEx can be found here.

Real-time data i.e. demand and frequency data, over the last 60 minutes can now be found on the Realtime Extranet section on the National Grid website. Historic frequency data as far back as 2014 can also be accessed for GB data at 1 second resolution.

This Market Information Report provides information to FFR providers on the requirement for the tender (TR 111) for delivery in Apr-19.

Requirements for Apr-19 (TR 111)

Primary Response:
A dynamic primary requirement exists in all EFA blocks with larger volumes overnight (EFA blocks 1 and 2).

Secondary Response:
A dynamic secondary requirement exists in all EFA blocks.

A non-dynamic secondary requirement exists in EFA blocks 3 to 6. As this requirement sits outside the minimum dynamic requirement, provision can be taken from either the dynamic or the non-dynamic market dependant on the economics of each solution.

High Response:
A dynamic high requirement is present in EFA blocks 3 to 6.

A breakdown of the outstanding requirement for this tender round can be found in Appendix 1. A full breakdown of the long-term requirements can be found in Appendix 1 in the excel file.

Market Updates

FCDM

The implementation plan for our new suite of frequency response products is due to be published on the Future of Balancing Services page in February. This report will provide more information on the products being introduced, and what the preconditions and dependencies of implementation are. It will also explore the interactions of implementing the new products with the existing FFR market.

FFR Auction Trial

Ahead of the FFR auction trial in which weekly FFR procurement will be undertaken, a portion of the dynamic and non-dynamic FFR requirement will be transferred from the monthly tenders to the weekly auction. Please look out for updates on the Future of Balancing Services webpage.
The implementation plan for our new suite of frequency response products will be published in the near future. This report will provide more information on the products we will be introducing, and what the preconditions and dependencies of implementation are. It will also explore the interactions of implementing the new products with the existing FFR market.

Tender Round TR111

TR111 is being run as a month ahead only tender instead of a full tender. Appendix 8 of the Market Information Report published in January 2019 indicated that there was little or no dynamic long term requirement to procure in this tender round. Non-dynamic long term requirements are to be carried forward into June 2019 long term tender round (TR114). Any shorter term requirements will be procured through the monthly tender rounds.

Response BOA and Holding Volume and Cost

This information is in Appendix 7 of the adjoining excel file.

For further information please contact your account manager or:
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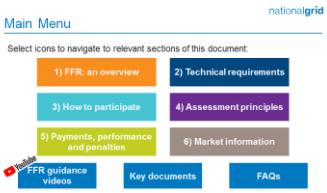
FFR service Overview



Interactive guidance document

Product Roadmap

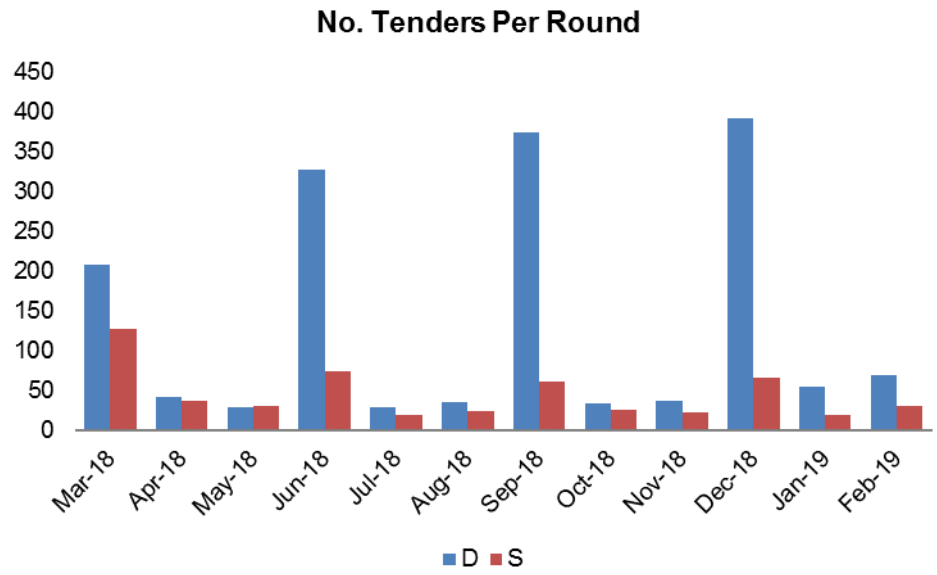
This document sets out the actions to be taken forward for frequency response and reserve.

Jan-19 FFR Delivery

87 active FFR contracts are due to provide FFR in Mar-19. These contracts are made up of:

- **51** dynamic contracts
- **36** non-dynamic contracts

The chart below displays the number of tenders submitted in the FFR market for the last 12 months by service type.



Key messages

Testing

Providers are required to have successfully passed FFR testing of their asset by the National Grid Generator Compliance Team prior to tendering in for month ahead delivery. E.g. If tendering to provide a FFR service starting on 1st Apr-19, the unit must have passed testing prior to the tender submission window closing on the 1st business day in Mar-19. Tenders that do not meet this requirement will be deemed non-compliant and automatically rejected.

Limiting tenders

Providers are limited to submitting 3 tenders per unit, per tender period. A tender period is considered to be; month ahead, quarter ahead and per season. All-or-nothing bids will be considered as 1 tender submission.

EFA Block Procurement

For providers wishing to start a tender on the last day of the previous month, these tenders cannot start earlier than 2300 or they will be deemed as non-compliant.

The minimum requirement across each specific EFA block will determine how much volume will be procured for each of the 6 daily 4 hour blocks.

Any outstanding shape will be satisfied, where necessary, closer to real time by the Electricity National Control Centre.

Enhanced Frequency Response (EFR)

100% of EFR is included in the requirements from July 2018.

Procured Volume

When determining which tenders to accept, National Grid will take account of its planned procurement strategy. In general, a measured approach is taken to determine the appropriate volume to procure throughout the duration of the tender

The table below provides guidance as to the reasons why a tender has been rejected. They can be matched against the numbers in the 'Reason Code' section of the Post Tender Report.

Tender rejection codes

No.	FFR Reason Code	Comment
1	Beneficial	While the price submitted was considered beneficial, on this occasion this tender was not accepted for one of the following reasons: 1.1. The outstanding or desired procurement requirement has already been satisfied by more beneficial tenders 1.2. There was no outstanding requirement 1.3. The desired volume against the National Grid procurement strategy for future tender months had already been satisfied 1.4. This tender formed part of an all-or-nothing group which did not collectively deliver enough benefit to be considered
2	Price not beneficial across tendered period	The price submitted was too high and did not provide any contract benefit against alternative actions including the mandatory and optional market.
3	Does not meet tender prerequisites	Please refer to the 'Technical Parameters' section using the following link to determine the criteria necessary to participate in the FFR market https://www.nationalgrid.com/uk/electricity/balancing-services/frequency-response-services/firm-frequency-response
4	Multiple tenders received for the same unit	Only the most valuable tender(s) of the total group of submitted tenders was considered.
5	Beyond desired procurement volume	Tenders submitted contained volume in a period where no procurement volume existed

Appendix 1:

A breakdown of the outstanding month ahead requirement for this tender round.

Dynamic FFR requirements for TR 111

EFA Block	Dynamic Response Required (MW)		
	Primary	Secondary	High
1	218	84	0
2	218	84	0
3	65	31	31
4	65	31	31
5	67	34	34
6	65	31	31

Non-Dynamic FFR requirements for TR 111

EFA Block	Dynamic or Non-Dynamic Response Required (MW)		
	Primary	Secondary	High
1	0	0	0
2	0	0	0
3	13	230	0
4	70	248	0
5	0	202	0
6	0	187	0

Appendix 2:

Apr-19 Requirements

The three charts below display the volume of frequency response left to contract at month ahead against the total response requirements. The red bars represent existing contracted service provision (both dynamic and non-dynamic) including any optional non-FFR services routinely used that National Grid forecast to be cost effective for the month ahead. The grey shaded area is the remaining volume to contract.

For month ahead only, except for circumstances where there is a specific dynamic requirement, the requirement will be taken from either dynamic or non-dynamic providers where deemed economic to do so. This means that any requirement found in the non-dynamic market may be procured in the dynamic market if considered more beneficial. With no primary non-dynamic market in existence, procurement of this volume across any EFA block will instead be taken from the dynamic market.

The breakdown of the requirement against dynamic and non-dynamic response can be seen in the tables in appendix 1.

In the move to standard EFA block window durations, the minimum of the total requirement across each EFA block outlines the level to be procured. In light of this transition, the minimum dynamic requirement remains a key component to be satisfied and outstanding volume against this will continue to be procured for operational purposes. For Mar-19, this is highlighted in the table in Appendix 1.