Firm Frequency Response (FFR) Market Information Report for Dec-19
Key Points

This Market Information Report is relevant for tenders submitted in Nov-19 for delivery in Dec-19.

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

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

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

Providers must use the template provided in the Coupa 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 Dec-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 NGESO 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 118) for delivery in Dec-19.

Requirements for Dec-19 (TR 119)

Primary Response:
A dynamic primary requirement exists in all EFA blocks.

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

No non-dynamic secondary requirement exists in any EFA blocks.

High Response:
A dynamic high requirement is present in all EFA blocks.

A breakdown of the outstanding requirement for this tender round can be found in Appendix 1. A breakdown of the six-months requirement can be found in Appendix 1 in the excel file.

Market Updates

FFR Auction Trial
In the FFR auction trial in which weekly FFR procurement is undertaken, a portion of the dynamic and non-dynamic FFR requirement is transferred from the monthly tenders to the weekly auction. Please look out for updates on the Future of Balancing Services webpage.

In order to implement the new product suite, and avoid overholding of response volumes, it will be necessary to review our long-term procurement of the existing PSH products. We will continue to hold monthly FFR tenders for month ahead volume.

In line with the letter published on our website on 19 July 2019, please be advised that NGESO will continue to procure FFR PSH through month ahead tenders only for the foreseeable future.

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:
Andrew Rice
Andrew.Rice@nationalgrid.com
**FFR service Overview**

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

**Product Roadmap**

Interactive guidance document

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### Nov-19 FFR Delivery

**126** active FFR contracts are due to provide FFR in Nov-19. These contracts are made up of:

- **122** dynamic contracts
- **4** non-dynamic contracts
- **125** contracts by BMU providers
- **1** contracts by NBMU providers

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

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### Key messages

**Testing**

Providers are required to have successfully passed FFR testing of their asset by the NGESO Generator Compliance Team prior to tendering in for month ahead delivery. E.g. If tendering to provide a FFR service starting on 1st Dec-19, the unit must have passed testing prior to the tender submission window closing on the 1st business day in Dec-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**

As a prudent system operator, it is our role to maintain and continuously review appropriate response requirements which includes consideration of the right balance of static and dynamic response. As system conditions continue to change and given our requirement is impacted by previous procurement activities (i.e. existing contracts), we have reviewed and determined that there is no requirement for non-dynamic secondary only frequency response until March 2020.
As system conditions are changing, we have increased the requirement of dynamic frequency response to manage our pre-fault frequency. Our total response requirement remains unchanged. We have monitored the use of MFR to meet the increased requirement for several months and we are confident this requirement should be released to the FFR market. This was released in TR118, moving procurement to the open, tendered market.

The weekly auction trial is due to start on 28th Nov 2019. In order to bring the procurement closer to real time that can result in reduced barriers to entry, we will procure part of this FFR dynamic volume through the weekly auction. We have therefore moved 100 MW of dynamic primary, secondary and high response from FFR monthly into the FFR weekly auction.

When determining which tenders to accept, NGESO 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.

**Tender rejection codes**

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.

<table>
<thead>
<tr>
<th>No.</th>
<th>FFR Reason Code</th>
<th>Comment</th>
</tr>
</thead>
</table>
| 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 NGESO 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  
| 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 119**

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<tr>
<th>EFA Block</th>
<th>Dynamic Response Required (MW)</th>
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**Non-Dynamic FFR requirements for TR 119**

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<th>EFA Block</th>
<th>Dynamic or Non-Dynamic Response Required (MW)</th>
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<tbody>
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Appendix 2:
Dec-19 Requirements

The three charts below display the volume of frequency response left to contract at month ahead against the total response requirements.

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 Dec-19, this is highlighted in the table in Appendix 1.