

Firm Frequency Response

Market Information for Tenders for MARCH 2008

National Grid wishes to highlight to participants its overnight requirement for FFR. Participants are invited to note the inclusion of Figures 7 and 8 for this purpose, as well as the enhancement to the Price breakdown table on page 6.

Total Frequency Response Requirements

Our indicative daily Total Requirement for Frequency Response for the above month is shown on a Settlement Period basis for weekdays, in Figure 1 and for Saturdays, Sundays and Bank Holidays, in Figure 2. The graphs show the requirement at maximum frequency deviation: 0.8 Hz for Primary and 0.5 Hz for Secondary and High Response.

Figure 1

Indicative Total Response Requirement - Weekday

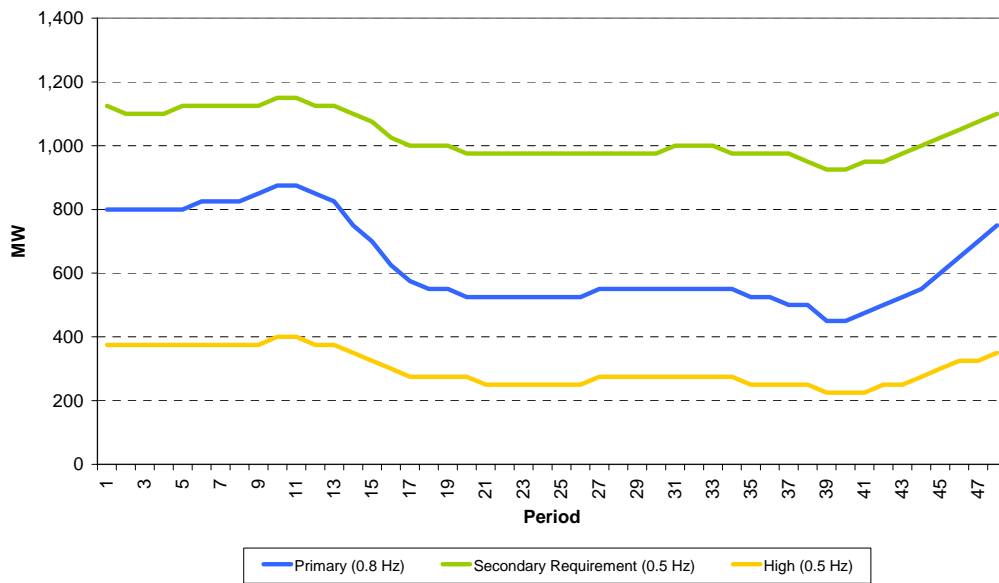
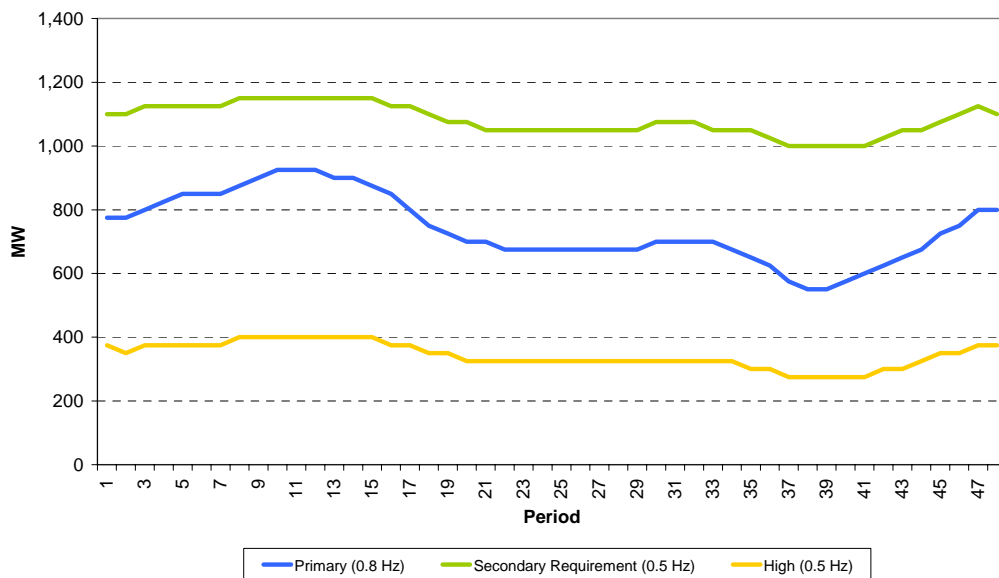


Figure 2

Indicative Total Response Requirement - Weekend



Minimum Dynamic Response Requirement

The indicative minimum required levels for Dynamic response are shown for Weekdays, Figure 3, and Saturdays, Sundays and Bank Holidays, Figure 4. The levels are shown for delivery at 0.5 Hz deviation, although 0.2 Hz is the largest frequency deviation within normal operational range. The total amount of response delivered by Dynamic providers contributes to meeting the Total Response Requirement, Figures 1 and 2, above.

Indicative Minimum Dynamic Response Requirement - Weekday

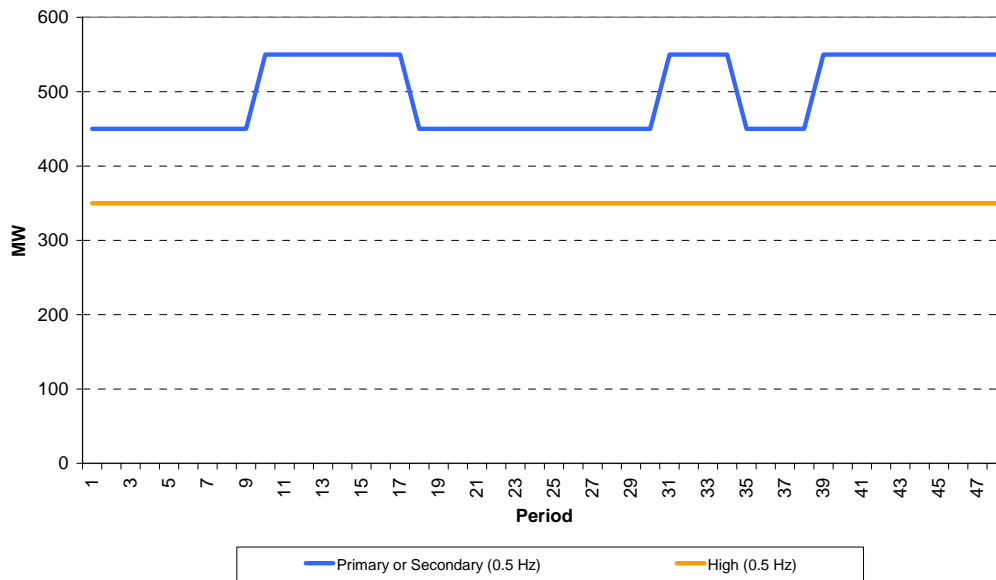


Figure 3

Indicative Minimum Dynamic Response Requirement - Weekend

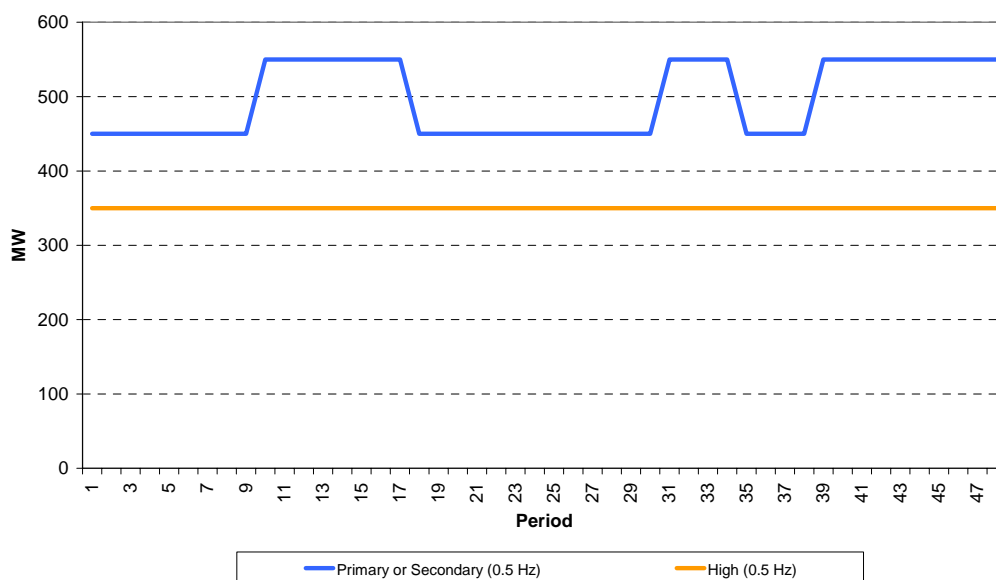


Figure 4

Maximum Non-Dynamic Response Level

The expected maximum level of Non-Dynamic Response is shown below for Weekdays, Figure 5, and for Saturdays, Sundays and Bank Holidays, Figure 6.

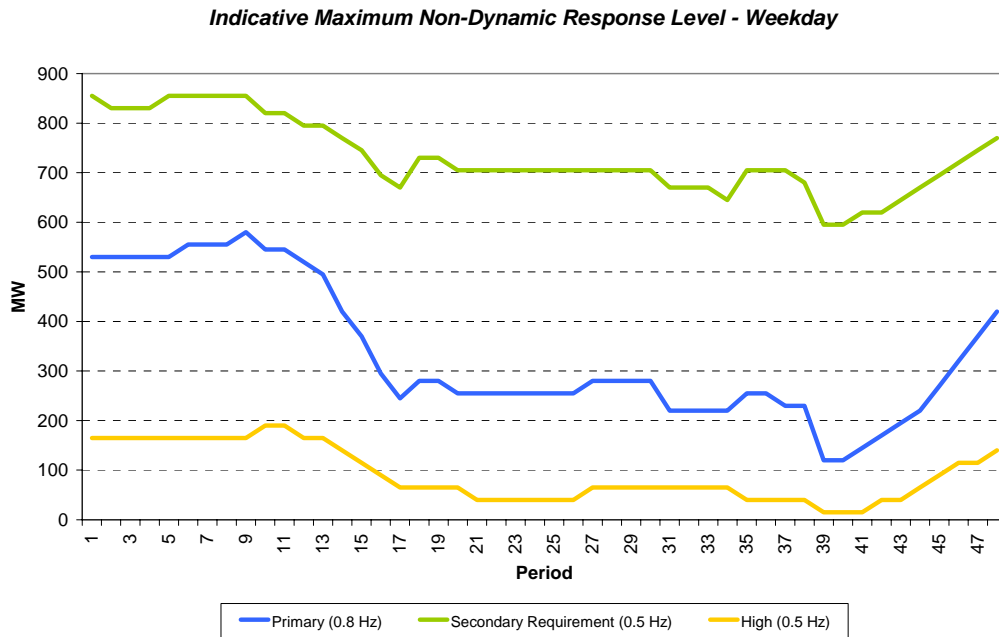


Figure 5

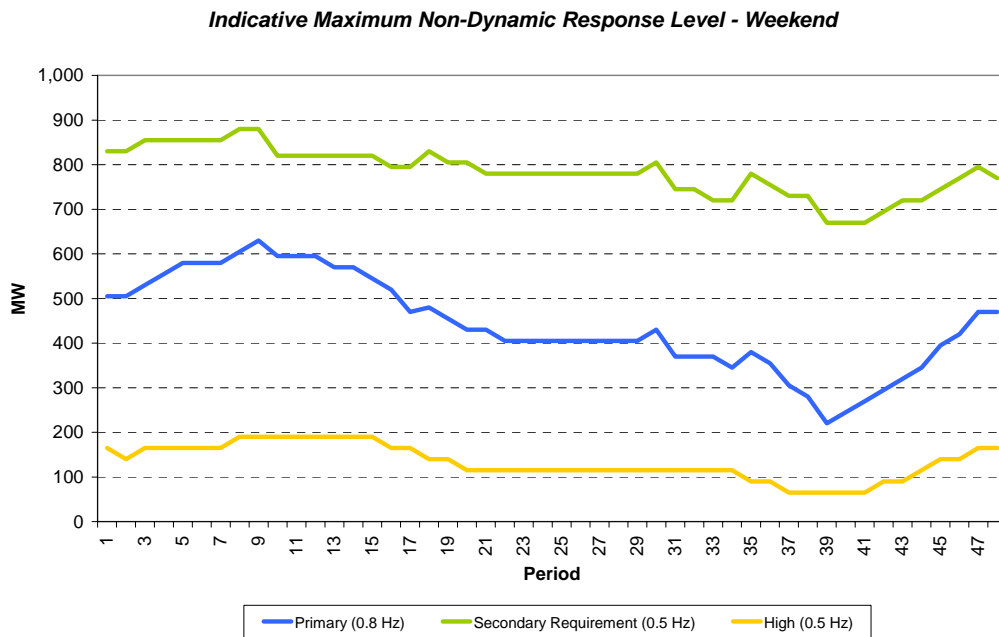


Figure 6

The maximum level of Non-Dynamic Response achievable is the Total Response Requirement (at 0.5 and 0.8Hz) less the Minimum Dynamic Response Requirement delivery (at 0.5 and 0.8Hz as appropriate).

Balancing Mechanism instructions on Frequency Responsive plant

Figure 7, below, shows a post-event analysis of the volume of Bid Offer Acceptances instructed on Balancing Mechanism Units that were, in conjunction with the delivery of the BOA energy, also providing Frequency Response. This analysis covers **December 2007 and January 2008** on a daily basis. This data gives an indication of periods during which National Grid takes balancing actions which also contribute to the optimisation of the response holding across the system. However, readers should be aware that this is only indicative and actions may have been required for other reasons apart from (or as well as) Frequency Response optimisation (such as resolving energy imbalance or transmission system constraints).

Average volume of BOAs on Frequency Responsive BM Units

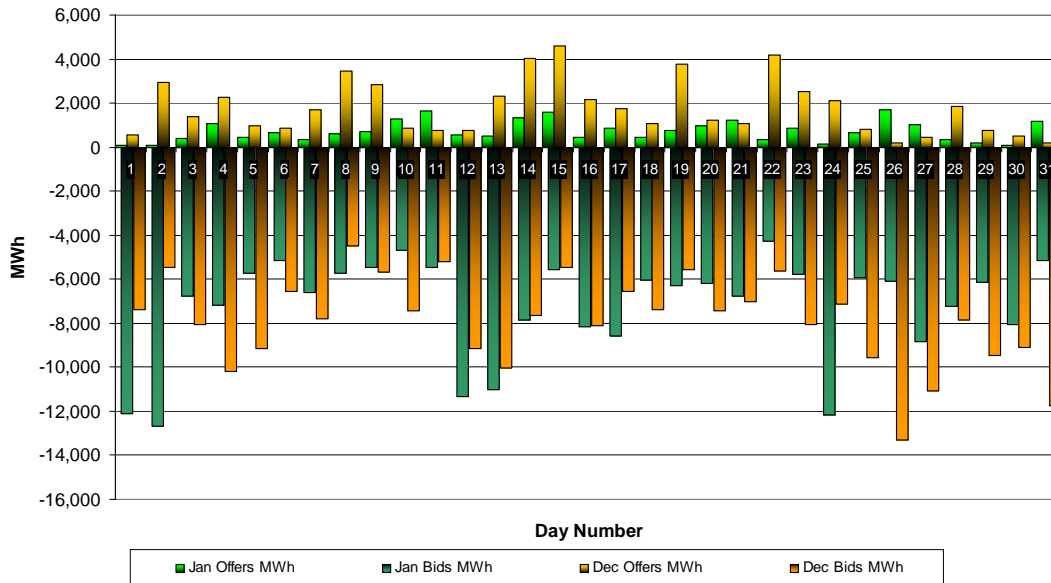


Figure 7

Figure 8 represents this data on a settlement period basis.

Average volume of BOAs on Frequency Responsive BM Units

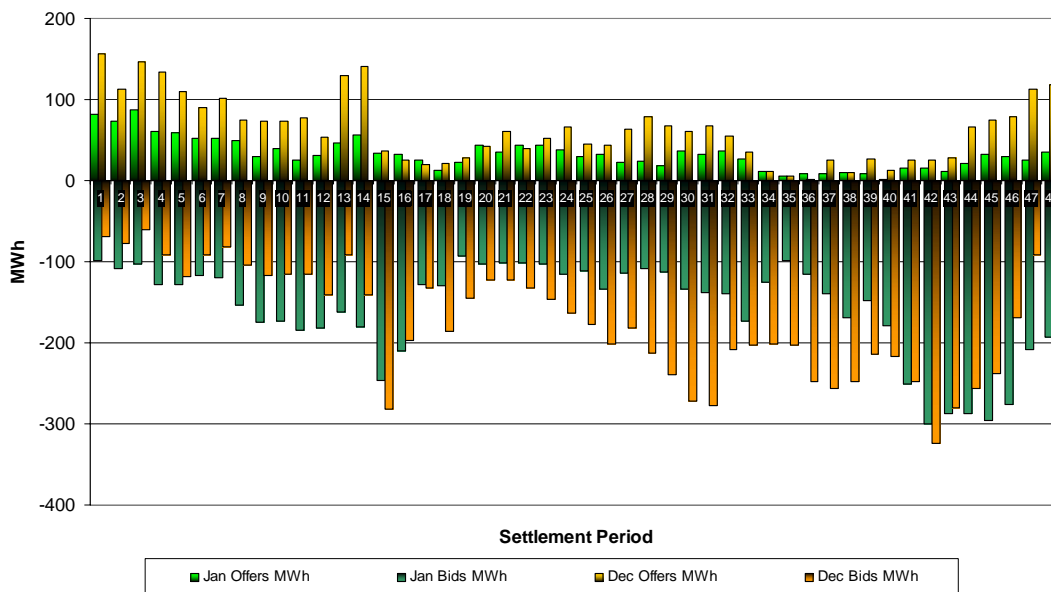


Figure 8

Indication of Firm Contract Position

Figure 9 below shows the aggregated firm position that National Grid has already procured for weekdays through a combination of non-dynamic and dynamic providers.

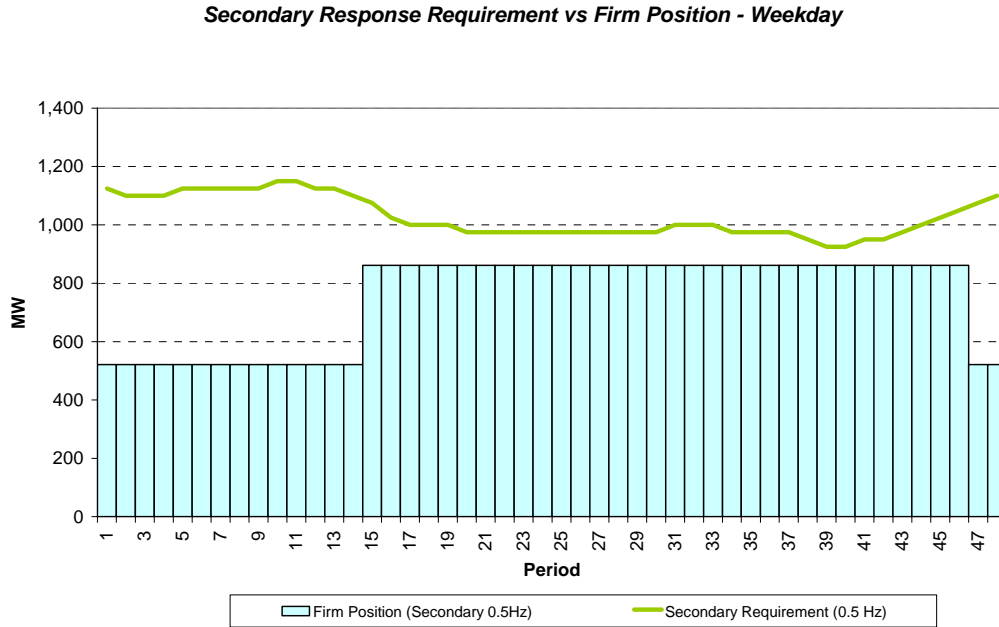


Figure 9

Figure 10 below shows the aggregated firm position that National Grid has already procured for weekend through a combination of non-dynamic and dynamic providers.

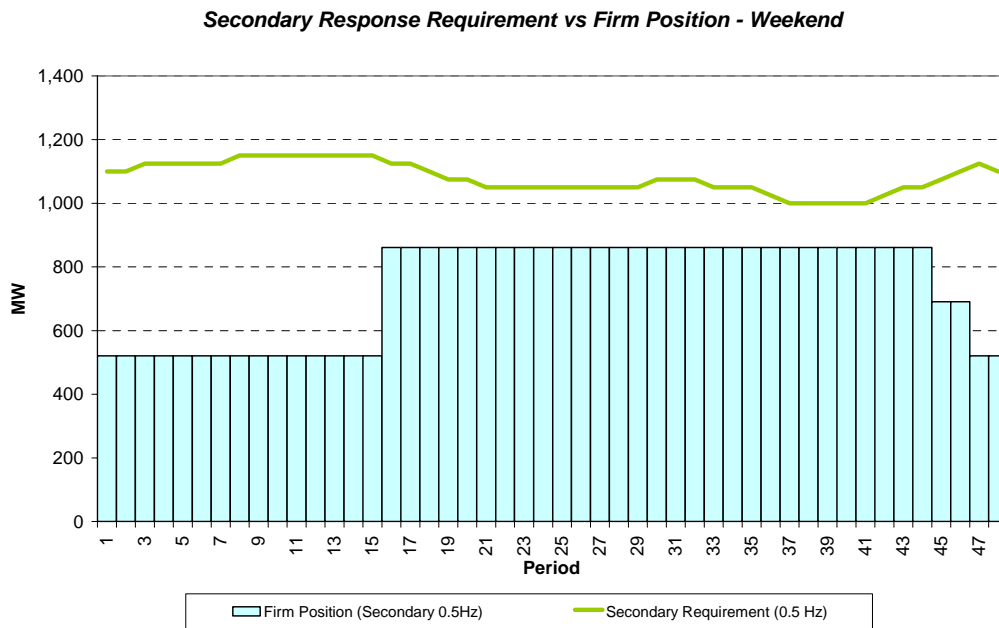


Figure 10

The total volumes for Frequency Response holding on Mandatory service providers are **1,149 GWh** for **December 2007** and **1,031 GWh** for **January 2008**, and break down into price bands as follows:

dec 2007	Primary	Secondary	High
Price band (£/MW/h range)	Volume (MWh)	Volume (MWh)	Volume (MWh)
Greater than 8	1,385	0	279,585
6 to 8	26,457	0	169,382
4 to 6	54,233	34,071	69,644
2 to 4	107,847	21,053	52,964
0 to 2	133,767	166,661	31,504
Totals	323.7 GWh	221.8 GWh	603.1 GWh
Costs	£0.95 m	£0.36 m	£4.88 m
Total Frequency Response Holding Volume			1,149 GWh
Total Frequency Response Holding Cost			6.20 £m

jan 2008	Primary	Secondary	High
Price band (£/MW/h range)	Volume (MWh)	Volume (MWh)	Volume (MWh)
Greater than 8	5,166	0	257,638
6 to 8	9,212	0	174,996
4 to 6	73,973	26,753	86,407
2 to 4	89,898	27,456	33,341
0 to 2	102,943	128,708	14,859
Totals	281.2 GWh	182.9 GWh	567.2403 GWh
Costs	£0.91 m	£0.30 m	£4.84 m
Total Frequency Response Holding Volume			1,031 GWh
Total Frequency Response Holding Cost			6.05 £m

Please note that the MW/h units of payment are defined in the CUSC and do not relate to the units of 0.8Hz Primary and 0.5 Hz Secondary and High Response as quoted for the requirements, above.

For **March 2008**, Frequency Response Requirements are anticipated to be in line with the forecast Figures 1 – 6, above. The availability of response services on optional contracts and on part loaded units means that it is unlikely that National Grid will seek to procure the entirety of its forecast requirement through this tender round. However, National Grid will procure in line with the principles laid out in the Assessment Principles.

For the month of **March 2008**, tenders from eligible Service Providers for Firm Frequency Response should be submitted by **7th February 2008** (5th business day). National Grid will notify Service Providers of the outcome of the tender assessment by **18th February 2008** (12th business day). For successful tenders, National Grid will notify nominated windows, following assessment, by the **20th February 2008** (14th business day).

Tenders should be sent for the attention of:

Bea Ennim
Network Operations
National Grid plc
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Tenders can be sent by email to Bea.Ennim@uk.ngrid.com