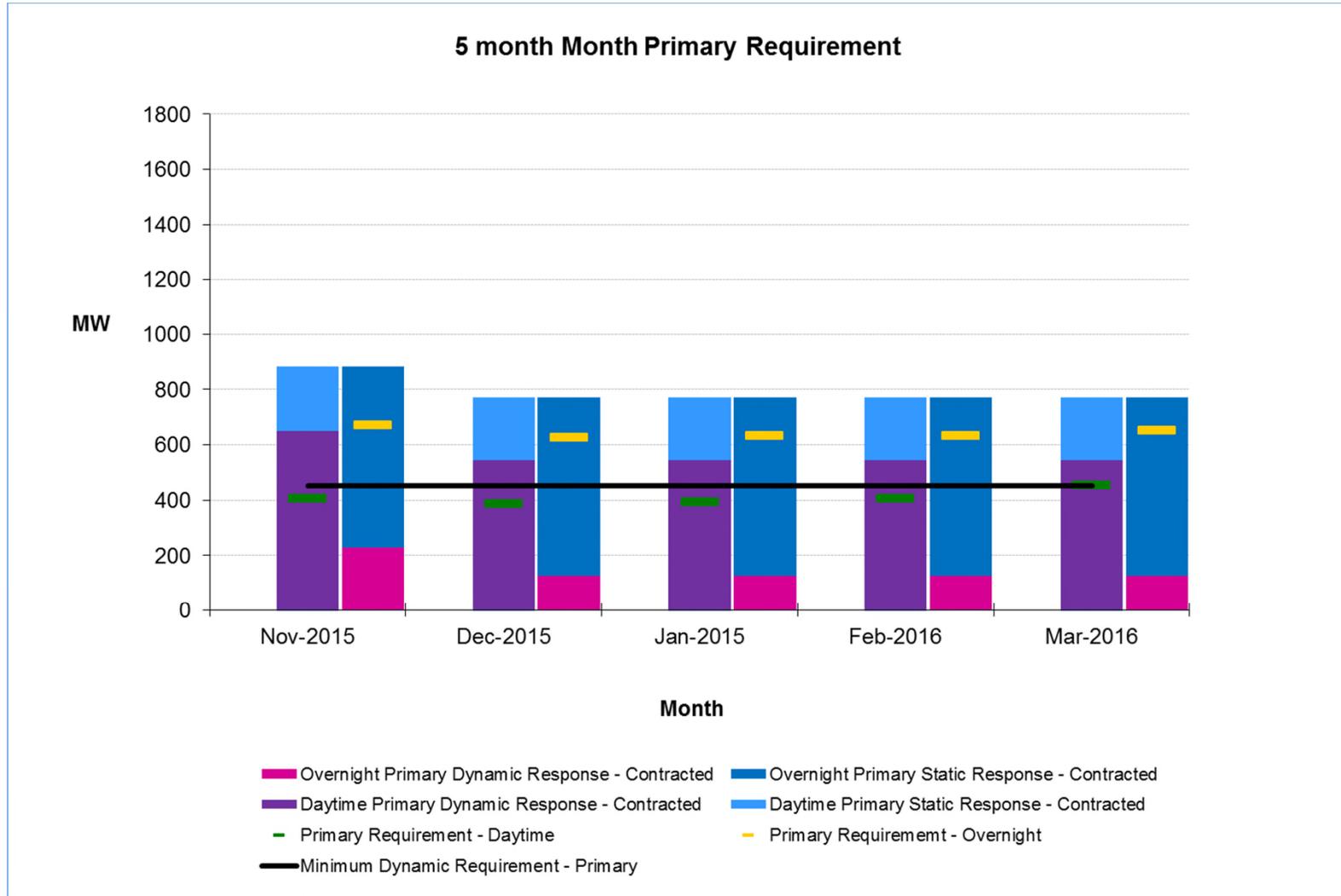


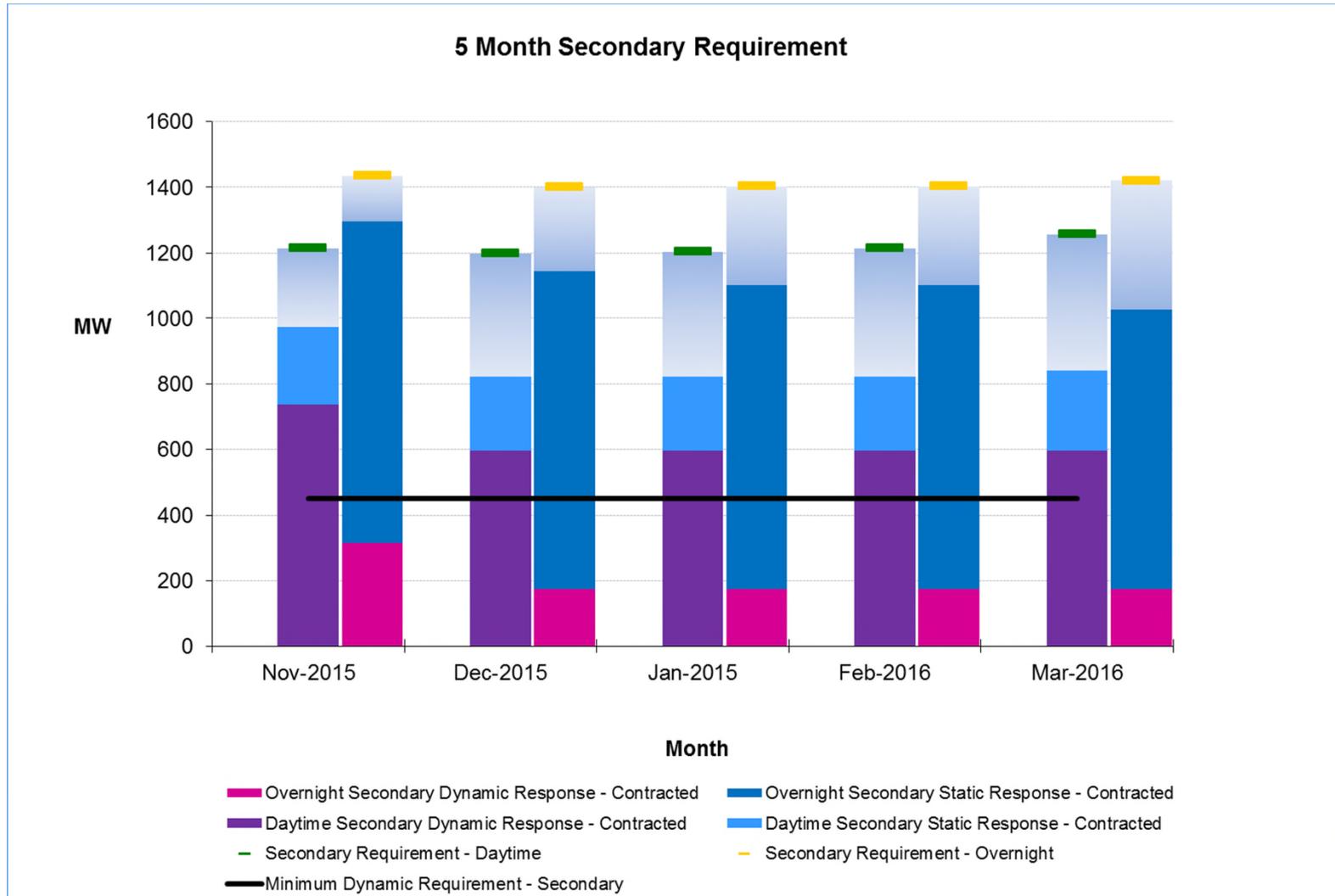
# Service Developments

Rebecca Yang

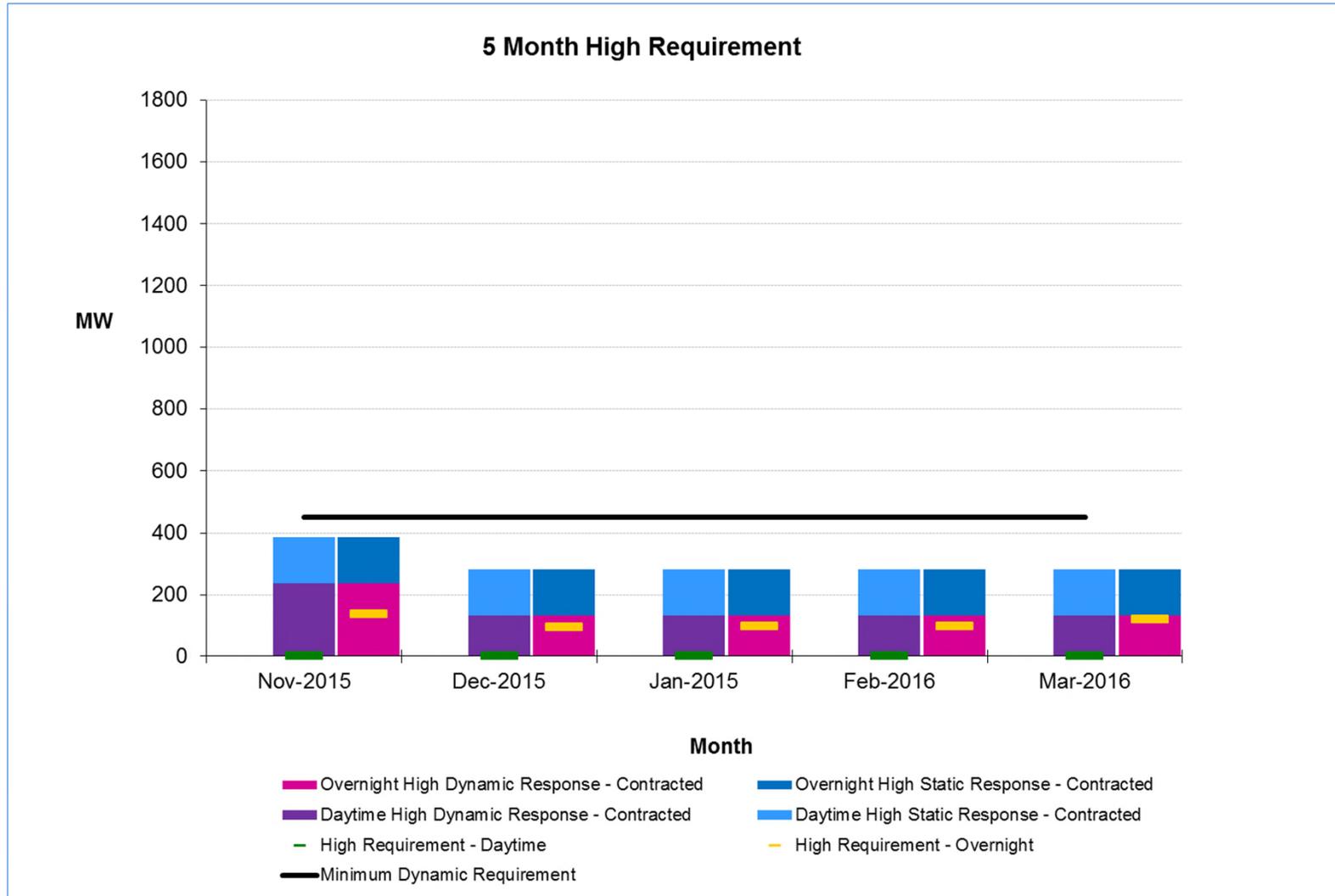
# Primary Frequency Response



# Secondary Frequency Response

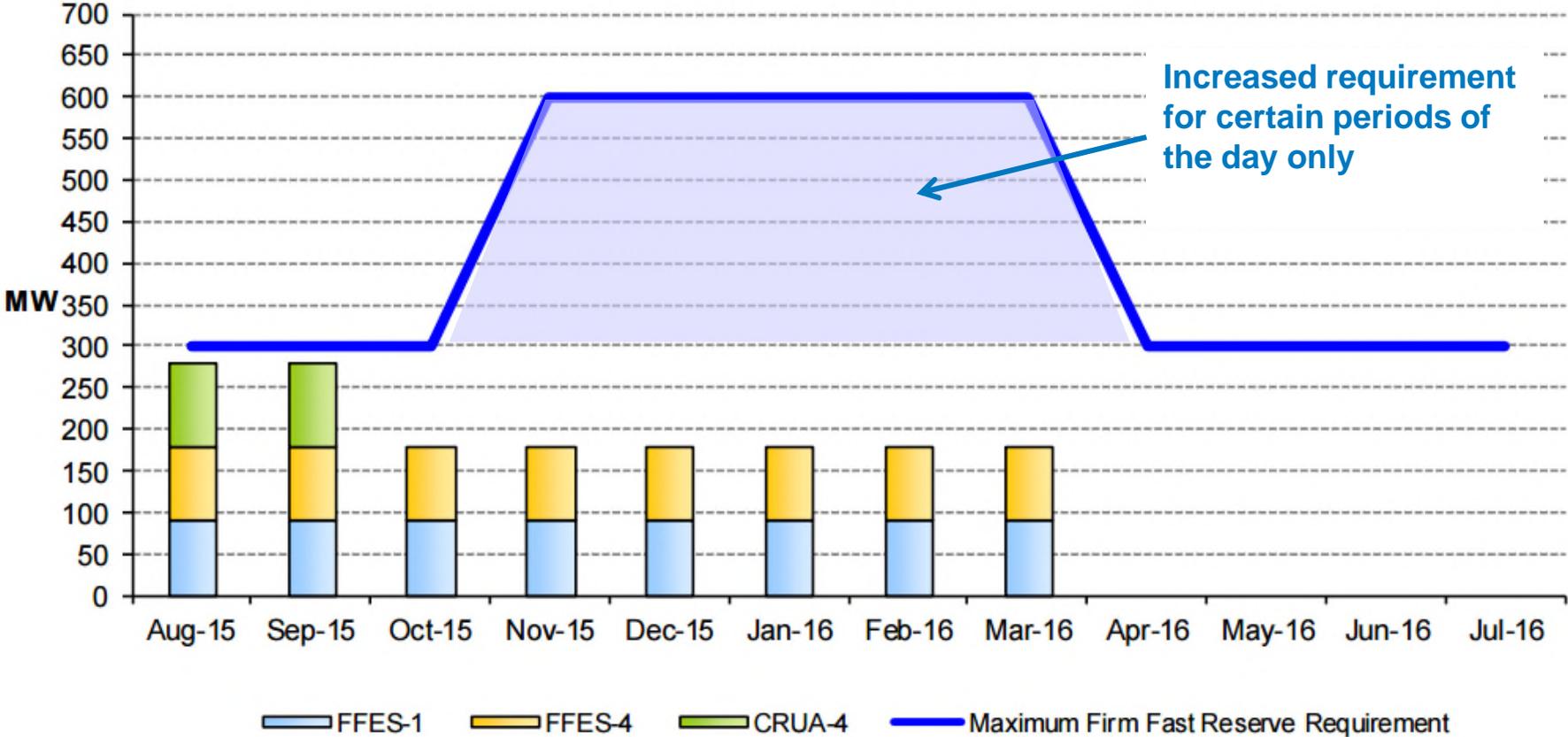


# High Frequency Response



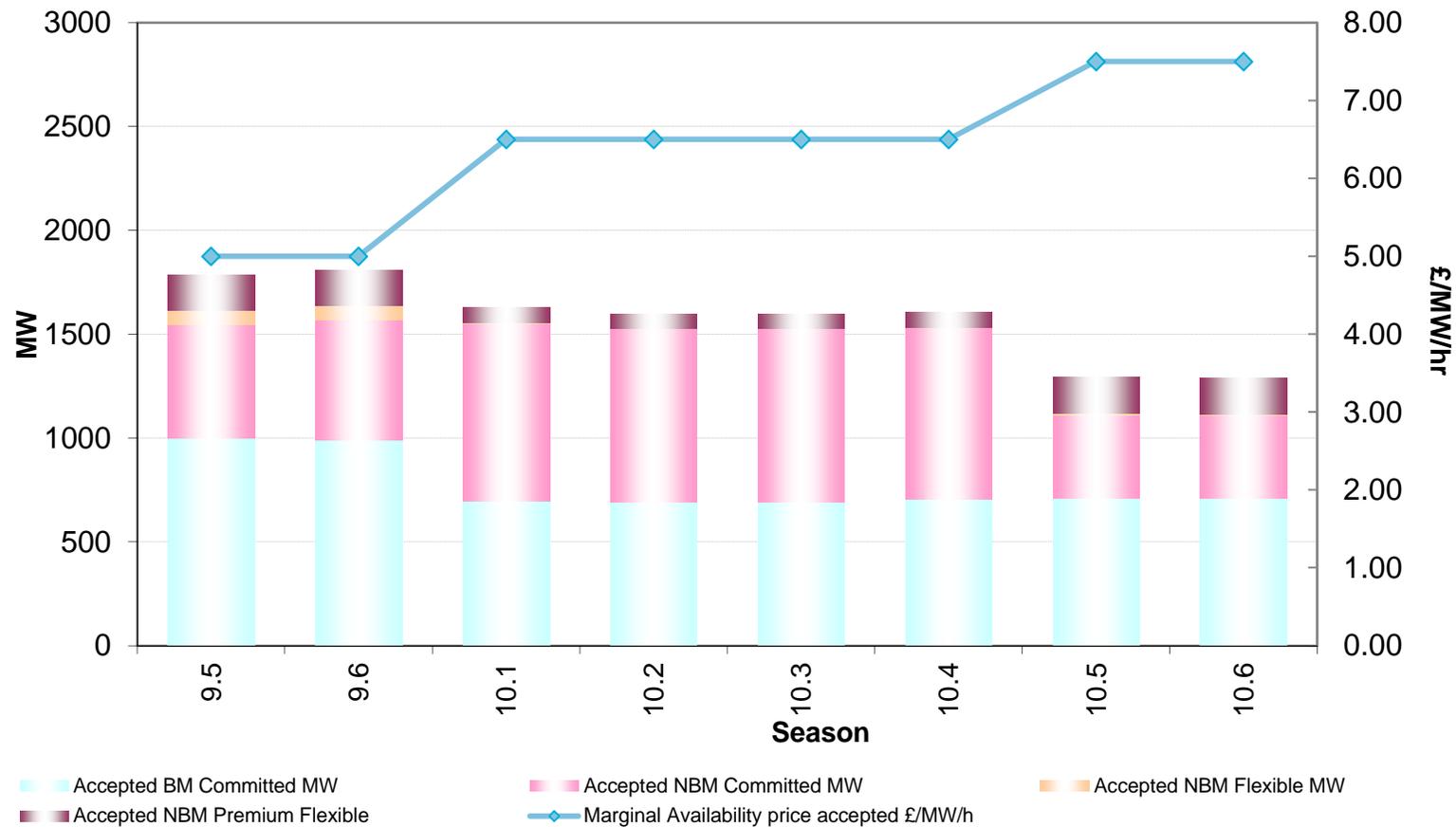
# Fast Reserve

Fig.1 - Contracted Firm Fast Reserve



# STOR TR27 Highlights

Accepted De-rated MW and Accepted Marginal Availability Price



## Service Developments



## Enhanced Frequency Response

---

- NGET has identified the need for enhanced frequency response
  - Start delivery in 500ms, full delivery in 1s
- Invitation for Expressions of Interest from industry in tendering for this service
  - Batteries suitable and other technologies are also welcome
- Tender exercise in Q4 for tranches of 1-50MW
- Contract term will be 4 years to start in 2017

## Enhanced Frequency Response

---

- We welcome your comments and proposals
- Deadline for submissions is **23<sup>rd</sup> October**  
<http://www2.nationalgrid.com/Enhanced-Frequency-Response>
- Year of second by second frequency data available to support analysis
- Contact [adam.sims@nationalgrid.com](mailto:adam.sims@nationalgrid.com)

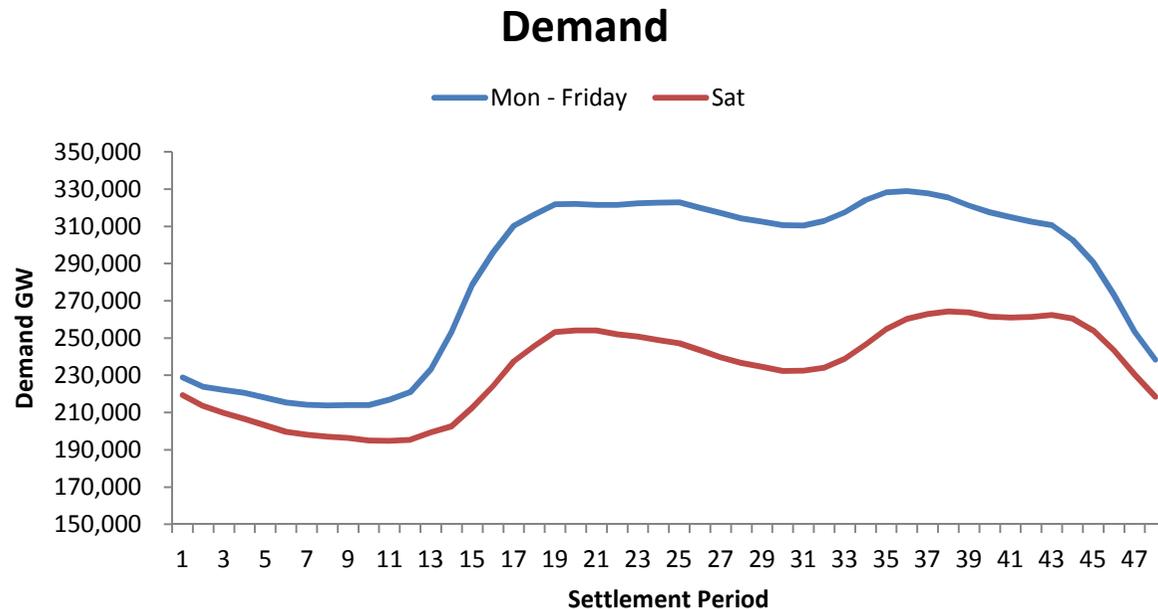
## Annual STOR Service Review

---

- Outline Change Proposal published on 2<sup>nd</sup> October
- Key changes proposed:
  - Reduction in minimum volume to 1MW
  - Suspension amendment for STOR contracts
  - Publishing of MW data from tender submission
  - Amendments to STOR windows
- Welcome your response on the proposal. Deadline for submission - 30<sup>th</sup> October 2015
- Contact: Nicholas Blair 01926 656797  
[commercial.operation@nationalgrid.com](mailto:commercial.operation@nationalgrid.com)

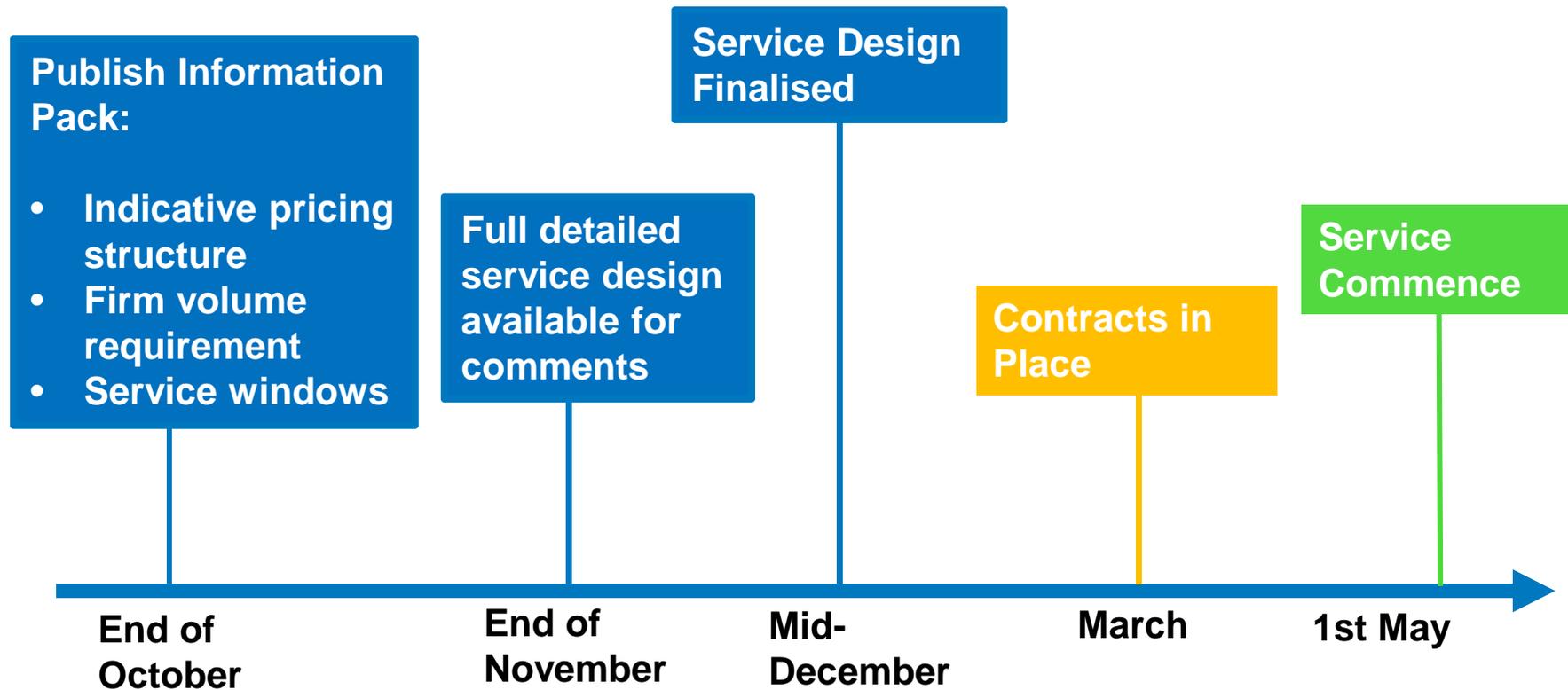
## Demand Turn Up Service Development

- A Demand Turn Up service is under development to deal with changing in demand profile
- Initial service requirement for 2016 & 2017
  - May & September : 200 – 375MW
  - June, July & August: 500 – 1000MW



## Demand Turn Up Service – Next Steps

---



Contact Nicholas Blair 01926 656797 [nicholas.blair@nationalgrid.com](mailto:nicholas.blair@nationalgrid.com)

# Q&A

[rebecca.yang@nationalgrid.com](mailto:rebecca.yang@nationalgrid.com)