## **Electricity Reserve Review**

Presentation to DSWG – 2<sup>nd</sup> August John Perkins



#### **Contents**

- Background to the reserve review
- Reserve review process
- Standing reserve
- Short term operating reserve
- Demand Side opportunities in Balancing Services
- Reserve Review Seminar Details



## Why do a reserve review?

- Balancing Services established when Energy Market rules changed (NETA go-live - 2001)
- Change to Gate Closure of 1 hour
  - Pre-Gate BMU Transaction's introduced
- Reviews of PGBT's and Transparency
  - Conclusions that wider review of reserve products would be better than specific smaller changes
- Industry Feedback
- National Grid decided to carry out a reserve review and engage industry in consultation



#### **Reserve Review Topics**

- What do we procure?
- How do we procure it?
- When do we procure it?
- What is the best/most efficient procurement for National Grid?
- Single Reserve product or incremental changes to existing products?
  - Industry view for incremental change



#### **Reserve Review Process**

- Review launched late 2004
- Industry engagement throughout 2005
  - Workshops
  - Bilateral meetings
  - Update Presentations
- Conclusions and Consultation Document issued October 2005



#### **Consultation Process**

- National Grid bought forward a set of proposals in consultation document (Oct 2005)
- Industry support for a number of proposals
- The most relevant to Demand Side is the changes to Standing Reserve arrangements



## **Existing Standing Reserve Product**

- At least 3MW (can be aggregated)
- Response Time of 20 minutes or less
- Fixed and optional windows
- Generation or Demand Side
- User defined recovery period
- User defined utilisation limits



## **Existing Standing Reserve Procurement**

- Annual Tender Round
  - Ad hoc tenders for Supplemental Standing Reserve
- Contracts for 6 seasons up to 1 year ahead
- Contractual Process
  - Standard Contract Terms
  - Tender Round
  - Individual Bilateral Contracts



## **Short-Term Operating Reserve Product**

- Key Change
  - Call off in 240 minutes or less
  - Aligns with Operating Reserve Requirement
    - held from 4hrs ahead to real time
  - Still a requirement for faster more flexible providers
    - i,e. less than 20 minutes
  - Reduces barrier to participation identified during Demand Turndown trial



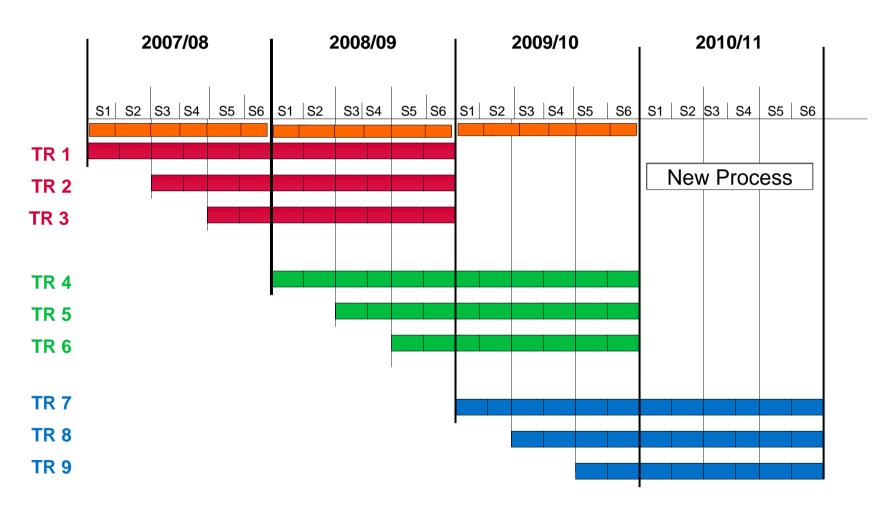
#### **STOR Procurement**

- Tender rounds three times/yr
  - Increased opportunity to participate
- Contracts for seasons for up to 2 years ahead
  - Providers can choose between certainty of income vs flexibility
- Standard set of contract terms
  - Providers sign up once (i.e. like a pre qualification)
  - Successful tenders become contractually binding
  - Reduces time/workload/legal resource for both National Grid and Providers
  - Reduces time between tender and contract go live
    - Reduces providers price risk



#### **Differences from Standing Reserve**

#### **Tender Round Duration and Process**





## STOR seminar 5th September 2006

- Purpose to describe the details of the service and its procurement
- Open to all prospective service providers.
- Where Ardencote Manor, Claverdon, nr Warwick
- E-mail: vince.hammond@uk.ngrid.com Telephone: +44 (0) 1926 653449

# Demand Side opportunities in Balancing Services

- Balancing Mechanism
- Standing Reserve / Supplemental Standing Reserve
- Demand Management
- Fast Reserve
- Firm Frequency Response
- Frequency Control by Demand Management (FCDM)

