

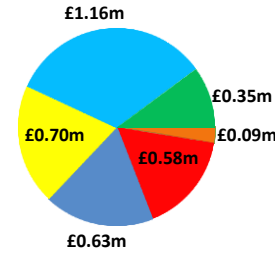
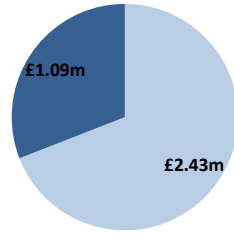
# Daily Balancing Costs

Date:

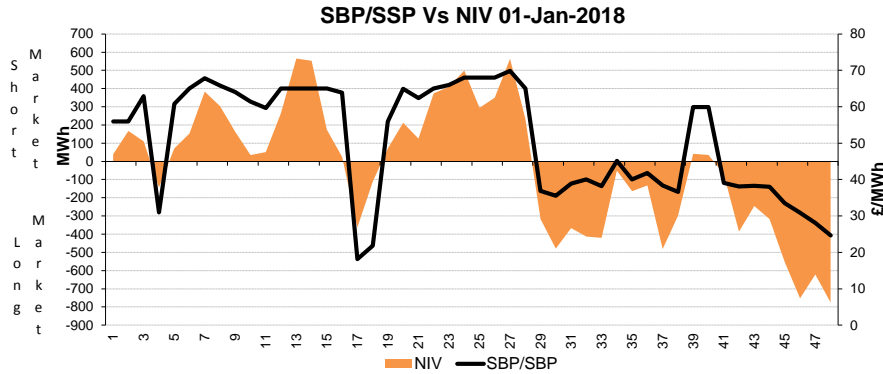
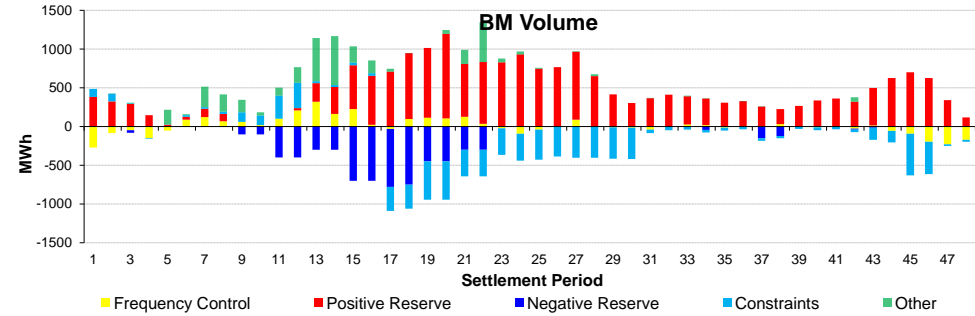
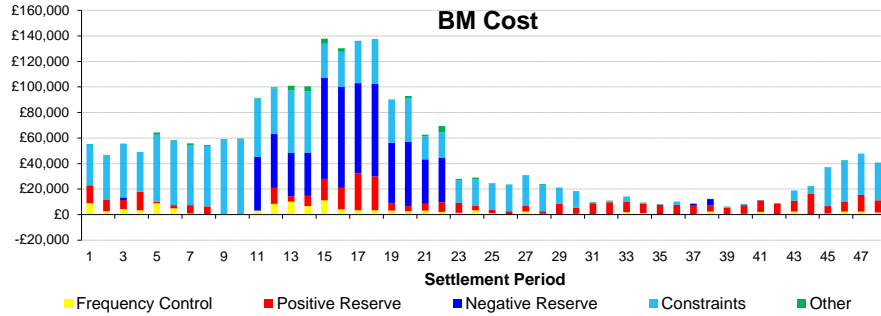
01/01/2018

BSUoS Charge Estimate: £2.79/MWh  
Total Outturn: £3.51m

■ BM Cost (Indicative)  
■ AS Cost (Estimate)



■ Energy Imbalance  
■ Positive Reserve (Op Res + STOR + BM Start Up)  
■ Negative Reserve (Footroom)  
■ Frequency Control (Response + Fast Reserve)  
■ Constraints (BM & Trades only)  
■ Other (Reactive + Black Start + BM + AS General)



## Commentary

Wind shortfall during the morning pick up required up to 350MW of STOR to be utilised. Some large demand forecast errors (up to 2GW) were seen throughout day and night, making system conditions challenging. Trades were required on the interconnectors for Negative Reserve reasons from early to late morning. Additional Dynamic response was utilised over the darkness peak. Falling demand caused frequency to exceed 50.2Hz just before 20:00, then a TV pick up caused the frequency to drop to 49.8Hz six mins later. Constraint costs were mainly Voltage and ROCOF issues. Both were largely resolved via trades on interconnectors (ROCOF) and conventional generation (Voltage and ROCOF). Additional BM actions were required for some Voltage regions and minimal ROCOF areas. Constraint costs were incurred in South Wales for a large part of the afternoon and evening.