

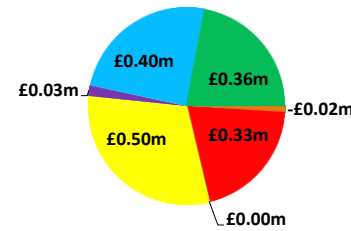
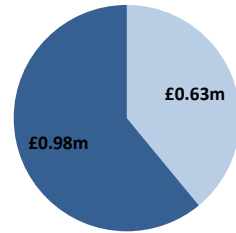
Daily Balancing Costs

Date:

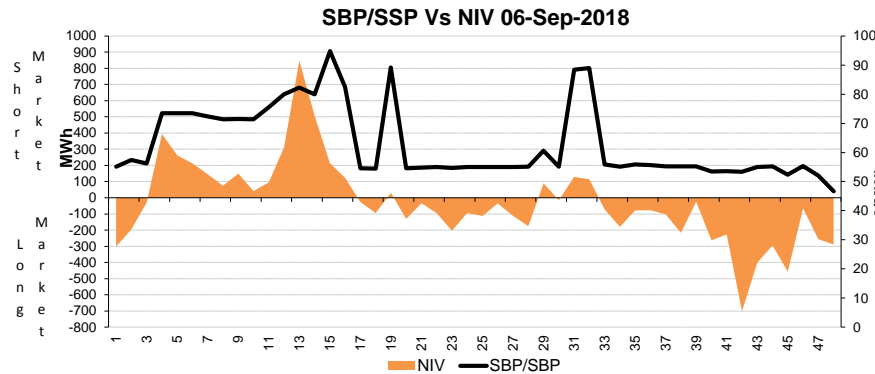
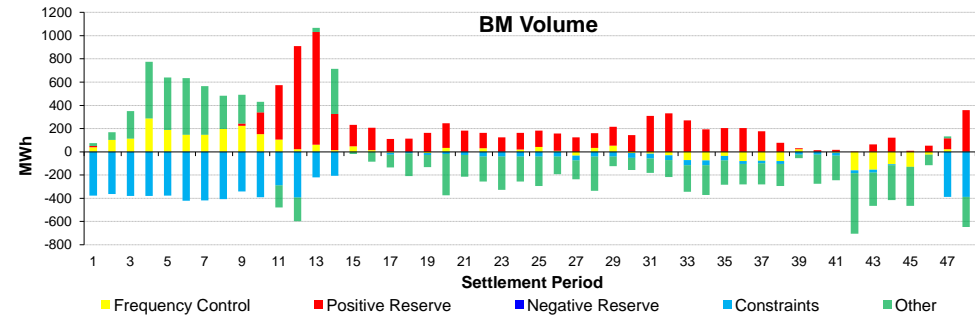
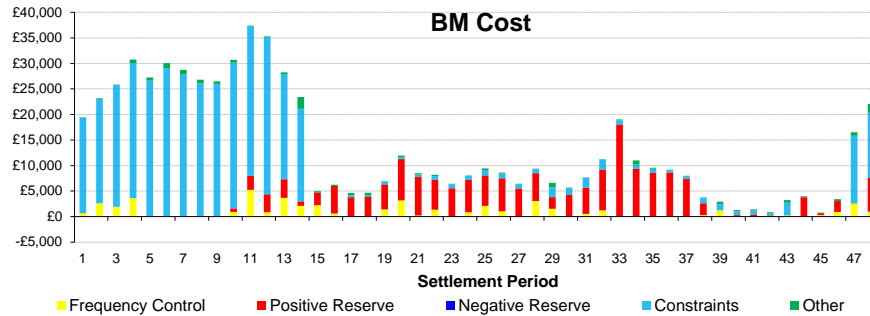
06/09/2018

BSUoS Charge Estimate: £1.49/MWh
Total Outturn: £1.62m

BM Cost (Indicative)
AS Cost (Estimate)



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



Commentary

During the early morning, wind was outturning at up to 1250MW below forecast, in addition to the loss of ~400MW of generation, possibly contributing to the short market position of up to 1600MW. Frequency rose to 50.23Hz just after 14:30 due to significant increase in wind output (~340MW) with no foresight. During evening peak wind output levels were rising significantly, 260MW STOR was instructed alongside running units in SpinGen mode and holding additional response for risk management. Overnight ROCOF issues required trades and BM actions to resolve on interconnectors and BM units. Voltage was met by the market except for the South East, so one unit was synchronised in the BM to support voltage. A constraint in South Wales required bids in the BM against a BM unit to solve throughout the day.

Note: A new category - Other Reserve - has been more clearly defined. Costs in this category used to be mapped to either Positive Reserve or Fast Reserve. These costs include BM Startup, Fast Start and some Hydro services. These changes have been made to align with the new Monthly Balancing Services Summary report.