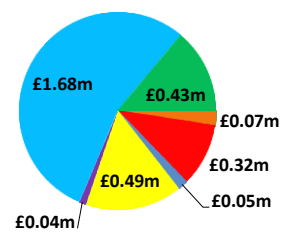
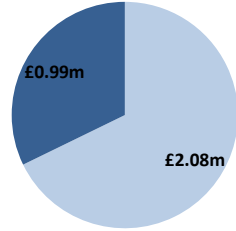


Date: 23/09/2018

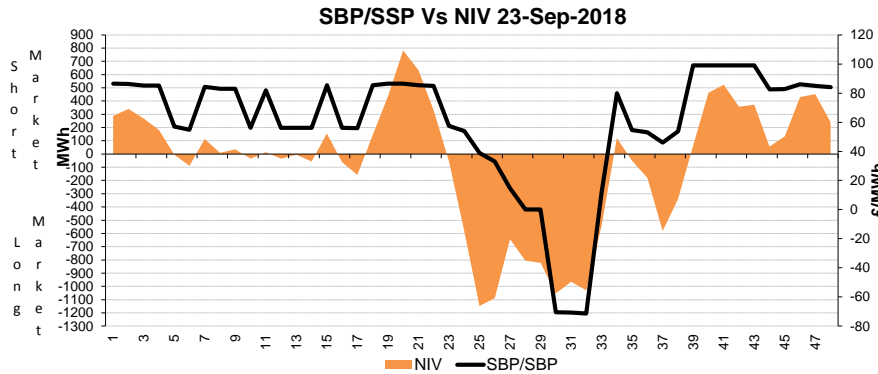
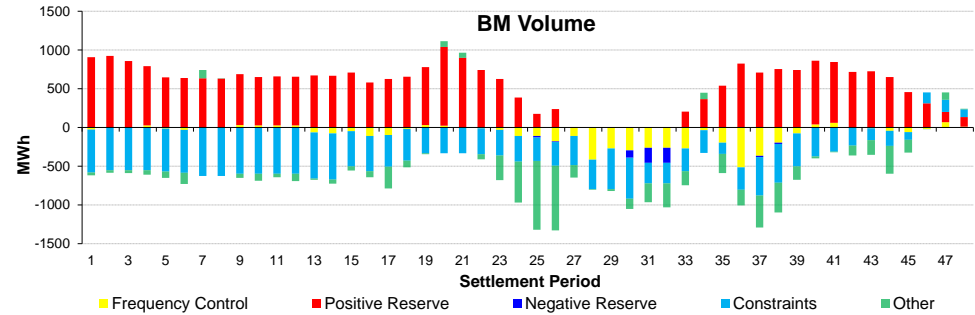
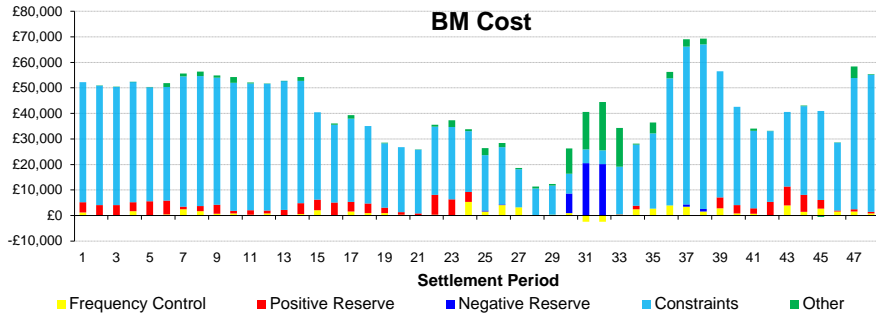
BSUoS Charge Estimate: £2.77/MWh  
Total Outturn: £3.07m

# Daily Balancing Costs

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

100MW STOR was run in the morning, additional high response was held from early afternoon until early evening to cover for wind volatility. Negative Reserve issues during the afternoon due to PV shortfaling by 2.2GW required actions on hydro and wind. Power flow restrictions between England and Scotland due to planned outages and wind generation being higher than forecast were resolved by BM actions on wind and hydro units. Trades and BM actions were used to solve voltage requirements across England and Wales overnight. ROCOF issues were resolved via trades on the interconnectors and on a BM unit.

**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.**