

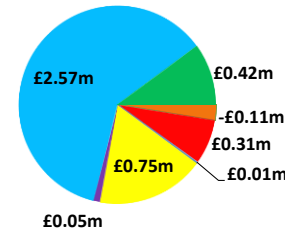
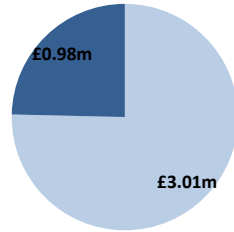
Daily Balancing Costs

Date:

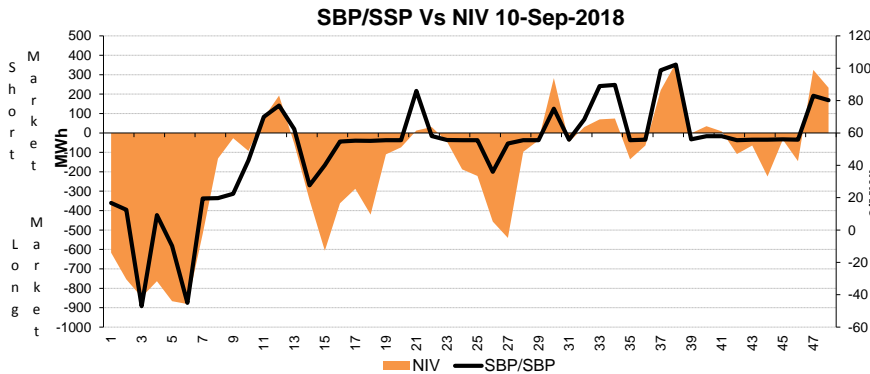
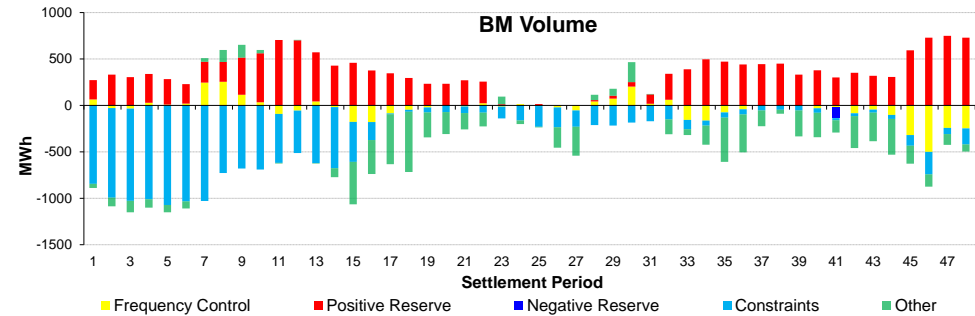
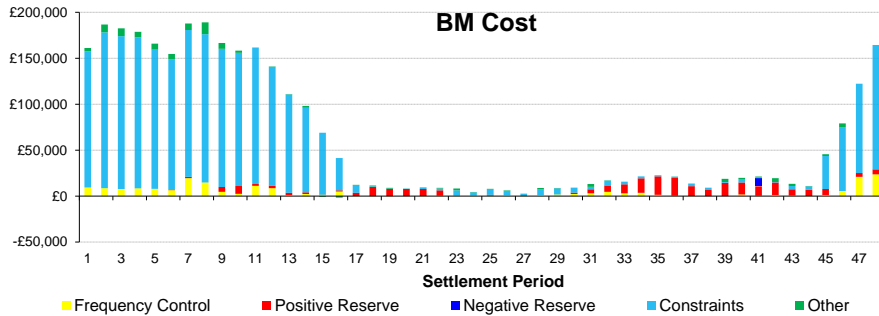
10/09/2018

BSUoS Charge Estimate: £3.35/MWh
Total Outturn: £3.99m

■ 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

The market was prevalently long until the mid-afternoon. Subsequently, it was alternating periods of short and long market until midnight. Over the morning peak, trades on the interconnectors were taken for positive margin. Significant over generation on wind was observed throughout the day up to 1400MW. For this reason, additional dynamic response was held for most of the day as well as for frequency control issues. Overnight, planned outages combined with high levels of wind generation were the main drive behind power flow restrictions in Scotland and on the network boundary between England and Scotland. These were solved with large volume of BM actions supported by trades on generating units. Also, RoCoF was managed with multiple trades on interconnectors and on generating units and, in the afternoon, with BM actions. In order to control the network voltage levels in many parts of England, large volumes of trades on generating units supported by BM actions were undertaken during the night hours. For the same reason, additional BM actions were taken in the afternoon.

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.