Daily Balancing Costs

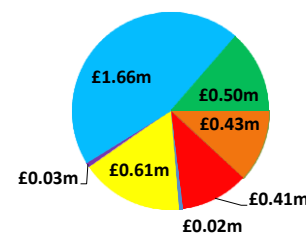**Date:** 07/11/2018

BSUoS Charge Estimate: £2.61/MWh
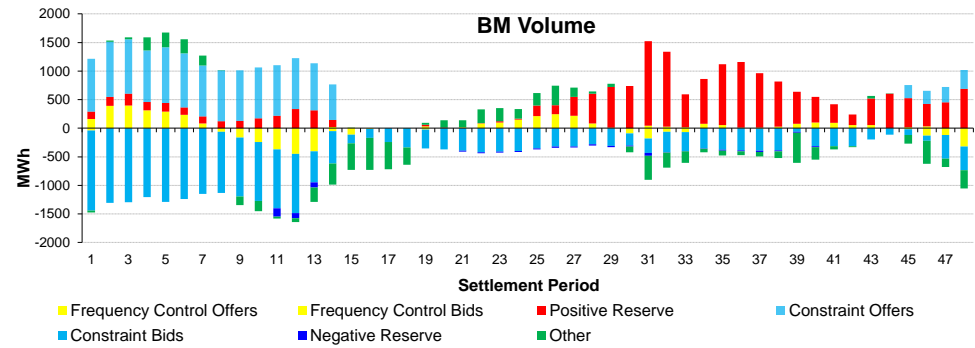**Total Outurn: £3.67m**

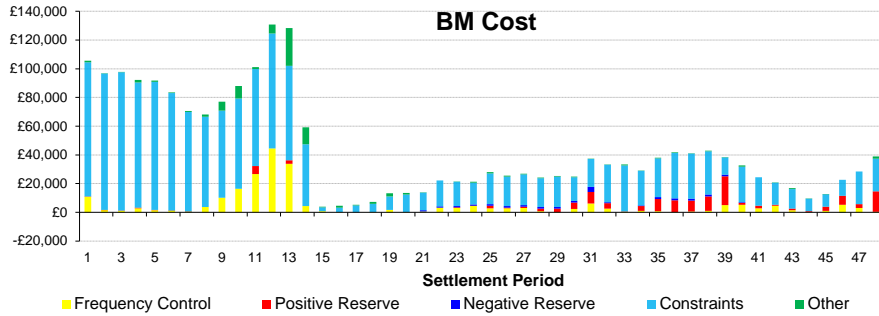**national grid ESO**

Pie Chart 1 (BM Cost / AS Cost)

- BM Cost (Indicative)
- AS Cost (Estimate)

£1.12m
£2.55m

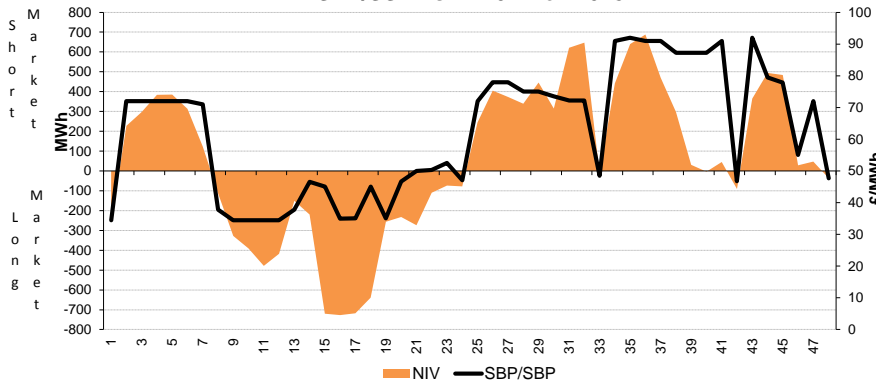## Pie Chart 2 (Cost Breakdown)
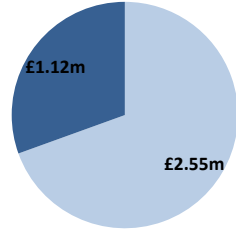
- Energy Imbalance
- Positive Reserve (Op Res + STOR)
- Negative Reserve (Footroom)
- Frequency Control (Response + Fast Reserve)
- Other Reserve (Ancillary Costs Only)
- Constraints (BM & Trades only)
- Other (Reactive + Black Start + BM & AS General)

£1.66m
£0.50m
£0.43m
£0.61m
£0.03m
£0.41m
£0.02m

BM Cost

x-axis: Settlement Period

Legend: Frequency Control, Positive Reserve, Negative Reserve, Constraints, Other

BM Volume

y-axis: MWh
x-axis: Settlement Period

Legend: Frequency Control Offers, Frequency Control Bids, Positive Reserve, Constraint Offers, Constraint Bids, Negative Reserve, Other

SBP/SSP Vs NIV 07-Nov-2018

y-axis (left): MWh — Short Market / Long Market
y-axis (right): £/MWh

Legend: NIV, SBP/SBP

Western Link status: Available

Commentary

The wind output was volatile during the morning moving from 700MW over forecast to 1300MW under forecast within an hour. 200MW of STOR was used to cover some of the wind shortfall. Additional high response was held in the daytime to cover for demand uncertainty and wind volatility. Trades were carried out on the Interconnectors for positive reserve in the afternoon. For the darkness peak 435MW of STOR was run to cover for wind shortfall ROCOF issues were solved via trades on the Interconnectors and a BM unit in addition to a small number of BM actions. Throughout the day trades and BM actions were taken to solve power flow restrictions due to planned outages in North of Scotland and on the network boundary between England and Scotland. Overnight the voltage levels were regulated with a mix of trades and BM actions.