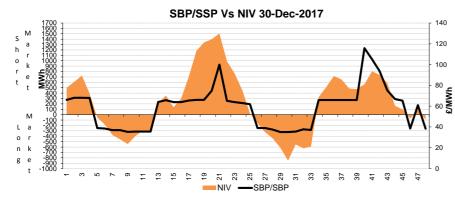


## £80,000 **BM Cost** £70,000 £60,000 £50,000 £40,000 £30,000 £20,000 £10,000 £0 -£10,000 33 1 3 9 11 13 15 17 19 21 23 25 27 29 31 35 37 39 41 43 45 47 5 7 Settlement Period

Negative Reserve

Positive Reserve

Frequency Control



## Commentary

1 3 5 7 9 11

Frequency Control

2000

1500

1000

500

-500

-1000

МWh

Other

Constraints

Throughout the morning, numerous units were kept on and others bought on due to economic energy prices; around 700MW of STOR was also utilised. Additional margin was required on conventional generation following the Western HVDC fault during the darkness peak. Demand and Wind volatility caused the frequency to exceed 50.2Hz just after 23:00.

Settlement Period

25 27 29 31

Negative Reserve

33 35 37 39 41 43 45 47

Constraints

13 15 17 19 21 23

Positive Reserve

a Early morning, trades resolved ROCOF and Voltage issues through to 7am. BM actions resolved further
 a ROCOF issues on conventional generation throughout the whole day. A fault on the Western HVDC caused
 a constraint problems across the Scotland-England border during the evening until late; BM actions were used
 to solve with trades enacted later. Western HVDC returned to service prior to end of the day, however trades had been enacted into the 31st Dec as risk management.

## £0.56m £0.69m £0.39m £0.39m £0.87m £0.87m £0.87m 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) BM Volume

Date:

30/12/2017

Other