



BSC OPERATIONS HEADLINE REPORT

1 In this report you will find commentary on BSC market operation, identification of key events and reporting of key data.

2 The [Trading Operation Report](#) publishes key market data graphically, giving a performance indicator for the Balancing and Settlement arrangements.

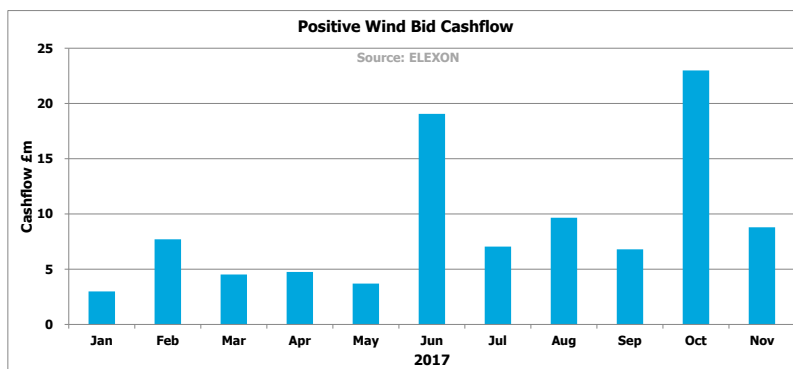
3 Trading Operations Report [Data](#). The graphs and backing data are available in Excel format on the ELEXON website.

OCTOBER WIND BID CASHFLOWS

In the November edition of the [BSC Operations Headline Report](#), we reported record wind generation for October, with accepted wind Bid volume totalling 331GWh.

Positive wind Bid cashflow (from negatively priced Bids) in October equalled £23m, or 96.6% of the total positive Bid cashflow for all fuel types in October (£23.82m).

Wind has accounted for 96.3% of Positive Bid cashflow in 2017 to date. The average price of positive accepted wind Bids in October was £69.95/MWh.

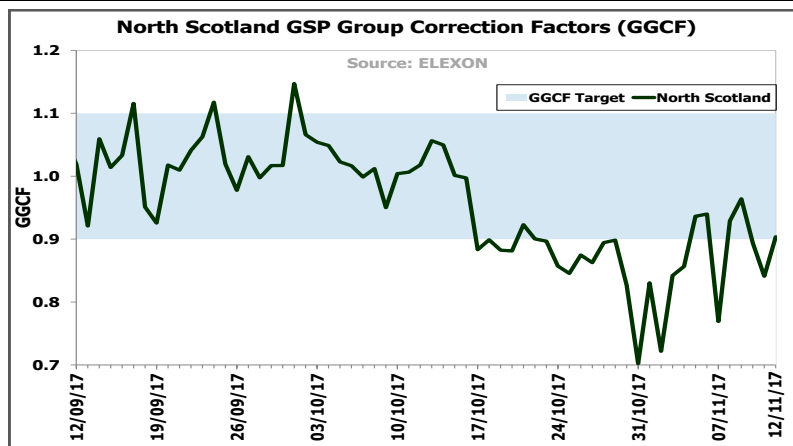


LOW GSP GROUP CORRECTION FACTORS IN NORTH SCOTLAND

The graph displays an adaptation of the "Daily Average GSP Group Correction Factor (GGCF) at SF" graph from the [Trading Operations Report](#).

GGCF values are low in North Scotland at the SF Settlement Run. Metering issues with a supplier BMU and a Grid Supply Point (GSP) have affected the GCFs in this region. Corrections in the GCF have been seen at the R1 Settlement Run.

GGCF values usually range between 0.9 and 1.1, but can be outside of this for a number of reasons. For example, after the 29 October clock change, GGCFs can vary due to profiled data tending to be less accurate at the seasonal shoulders.

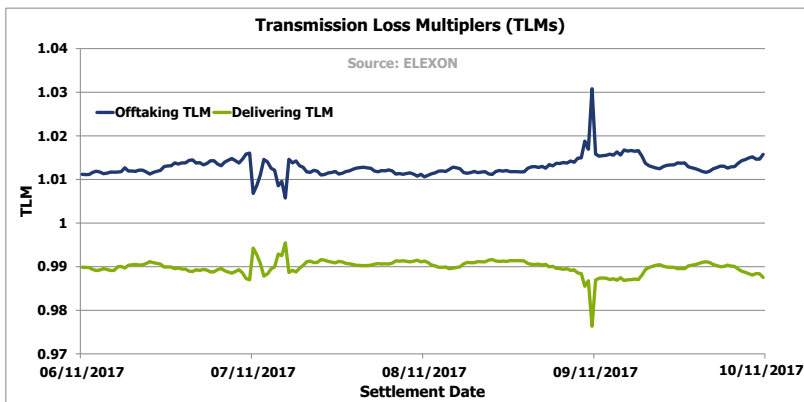


TRANSMISSION LOSS MULTIPLIERS AT SF

Two metering issues, one affecting a BMU and one affecting a Grid Supply Point in GSP Group _N (South Scotland), are impacting the Transmission Loss Multipliers (TLMs) at the SF Settlement Run. TLMs are used to allocate Transmission Losses to BSC Parties Credited Energy Volumes. Settlement Periods 1 to 10 on 7 November, and Settlement Periods 46 to 48 on 8 November, are impacted.

This can be seen in the 'spikiness' of the Delivering and Offtaking TLMs in this graph. The issues were investigated by ELEXON at the II Settlement Run, and raised with the Central Data Collection Agent (CDCA) to correct where appropriate.

These issues were not fully corrected by the CDCA at the SF Settlement Run, so ELEXON is working with them to ensure the data will be correct in future Settlement Runs.



SYSTEM PRICES IN NOVEMBER¹

Monthly average System Prices for November were lower when short (-3.5%) and higher when long (27.7%) compared to October 2017. The average System Price regardless of length was **£47.81/MWh**, which is 9% higher than last month. In November 2017 the market has been long in 59%, and short in 41%, of Settlement Periods.

System Prices **exceeded £100/MWh** 19 times in November 2017 (compared to 39 times in October). In November 2016 there were 144 System Prices above £100/MWh. The 19 System Prices which exceeded £100/MWh occurred across 10 different days.

The highest System Price for November 2017 was **£120.95/MWh**, occurring in Settlement Period 37 on 15 November. This System Price was set by a Balancing Services Adjustment Action (BSAA) priced at £123.14/MWh, and by two bids from Pumped Storage BMUs priced at £109/MWh and £115/MWh.

There were **no negative** System Prices in November compared to 15 in October. There were also **no Settlement Periods** where the System Price was **£0/MWh** in November, compared to 5 in October.

The lowest System Price of the month was **£13.36/MWh**, on 14 November in Settlement Period 1. The price was set by a BSAA priced at £18/MWh, and bids from two Pumped Storage BMUs priced at £0/MWh.

Period	Average (£/MWh)		Average (£/MWh) Peak 07:00-19:00	
	Short System	Long System	Short System	Long System
Nov-17	64.79	37.04	70.61	38.36
Oct-17	67.12	29.00	71.58	30.84
Sep-17	68.89	31.84	73.67	33.67
Autumn 17	67.00	32.55	72.26	34.32
Summer 17	65.87	25.10	72.67	25.42
Spring 17	69.15	28.58	80.98	28.12
Winter 16/17	82.60	35.93	92.90	37.27
Autumn 16	99.05	28.49	126.25	29.66
Nov-16	117.26	35.76	165.94	37.98

TRADING CHARGES

Gross imbalance cashflows were £347m in October 2017, a 7% increase from £324m in September 2017. Credits for being long, and debits for being short, increased by £12m and £11m respectively between September and October.

Energy Imbalance Volumes for Parties that were long increased by 14%, and by 11% for Parties that were short.

The **Offer** cashflow increased by 51% in October, with the volume of Offers rising by 60%. The average price per MWh of Offer volume decreased by 5% to £66.64/MWh.

Net **Bid** cashflow increased compared with September, from -£3.4m to £10.5m in October. Bid cashflow from positive Bids increased by 25%, but increased by 233% for negative Bids, compared to September.

Total Cash Flow (£m)	Oct-17	Sep-17	Aug-17	Jul-17
Long Imbalance Charge (Credit)	-173.70	-161.94	-139.61	-39.23
Short Imbalance Charge (Debit)	173.02	162.27	137.69	37.82
RCRC Credit	8.56	7.68	5.34	5.74
RCRC Debit	-9.24	-7.35	-7.26	-7.14
Offer Cash Flow	63.41	42.00	47.58	41.96
Bid Cash Flow (Positive Bids)	-13.31	-10.61	-7.98	-7.61
Bid Cash Flow (Negative Bids)	23.82	7.15	10.27	7.41

ENERGY BALANCING VOLUMES²

The total volume of balancing actions for October was 1,922GWh, a 72% increase from September 2017.

Accepted **Bid** volume increased by 86% from September, with volume increasing across all fuel types. Wind, Gas and Hydro bid volumes all rose, increasing by 244%, 48%, and 172% respectively. 50% of total Bid volume came from Gas, with Wind accounting for 34%.

Accepted **Offer** volume increased by 60% from September. Whilst Coal Offers decreased by 15%, Gas Offer volume increased by 75%. Gas Offers accounted for 88% of Offers in October compared to 80% in September. In contrast, Coal accounted for just 7% of Offers this month compared to 14% last month.

Fuel Type	Bid Volume (MWh)		Offer Volume (MWh)	
	Oct-17	Sep-17	Oct-17	Sep-17
Coal	-39,238	-31,264	69,017	81,604
Gas	-479,910	-322,783	835,671	477,816
Hydro	-52,660	-19,373	1,682	3,411
OCGT	0	0	753	72
Pumped Storage	-57,868	-44,822	36,149	32,388
Wind	-330,715	-96,255	1,912	675
Biomass	-9,565	-6,782	6,362	1
Other	0	0	0	0
Grand Total	-969,955	-521,280	951,545	595,967

¹ System prices are based on the previous month's Interim Information (II) run data.

² Balancing volumes appear as per the latest month with Initial Settlement (SF) run data available.