



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 Operations 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.

WIND GENERATION AT RECORD LEVELS

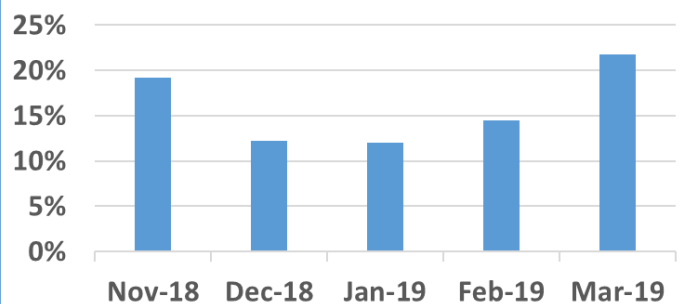
Wind was the highest generation by fuel type for 22% of Settlement Periods in March 2019. This is the highest proportion recorded after November 2018 in which this was 19% of Settlement Periods. By volume, Wind contributed 17% of generation for the month. In 32 Settlement Periods, Wind delivered over 40% of the generation and on a daily basis exceeded 200GWh on seven days in the month.

Balancing Mechanism actions taken to reduce the amount of energy on the system totalled 145,717MWh which was 17.6% of total Bid volume in the month.

Balancing Mechanism actions or 'Bids and Offers' are used in the calculation of the System Price. Whilst there has been high wind generation in the month, this has also led to a series of negative system prices. This is because Bids related to the wind fuel type tend to have a negative price, representing a payment to the wind BM Unit to reduce generation. On 24 March 2019, a negative System Price occurred in 13 consecutive Settlement Periods (from Settlement Period 21 to 33). The lowest of these negative System Prices was -£70.24/MWh which occurred in Settlement Periods 28 and 29. The System Prices in these Settlement Periods was set by two sets of two Sell actions from Wind BMUs all priced at -£70.24/MWh.

You can find more analysis of negative System Price's in ELEXON's recent [Insight article](#).

Percentage of Settlement Periods where Wind is largest generation by Fuel Type



SYSTEM PRICES IN MARCH¹

Monthly average System Prices for March 2019 were lower when short (-11.3%) and long (-21.6%), compared to February 2019. The average System Price regardless of length was **£43.25/MWh**; 11% lower than last month.

System Prices exceeded £100/MWh a total of six times this month, compared to 19 times in February. The highest System Price of the month, **£152.30/MWh**, occurred in Settlement Periods 35, 37 and 38 on 18 March 2019. This price was set by four Buy Actions from a CCGT BMU in Settlement Period 35 and 37. In Settlement Period 38 the System Price was set by a Coal BMU. The Buy Price Price Adjuster (BPA) in these periods was £42.30/MWh.

The lowest System Price, **-£70.24/MWh**, occurred in Settlement Periods 28 and 29 on 24 February. This was set by two Sell actions from one Wind BMU in each Settlement Period.

Period	Average (£/MWh)		Average (£/MWh) Peak 07:00-19:00	
	Short System	Long System	Short System	Long System
Mar-19	62.28	29.08	64.11	29.03
Feb-19	70.21	37.09	76.89	37.31
Jan-19	84.77	44.46	91.92	46.26
Spring 19	62.28	29.08	64.11	29.03
Winter 18/19	79.64	42.31	85.94	44.31
Autumn 18	82.75	45.80	86.62	48.39
Summer 18	73.46	42.02	76.60	42.52
Spring 18	83.53	37.68	92.59	37.97
Mar-18	72.65	39.28	78.42	39.58

NORTH SCOTLAND EXPORTING GSP GROUP

North Scotland saw a minimum daily energy take of -348MWh on 12 March 2019, the lowest since 8 December 2018. This is also the second lowest minimum daily GSP Group Take in the past year.

A negative GSP Group Take/minimum daily average consumption means the GSP group was a net exporter and generated more energy than it consumed.

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

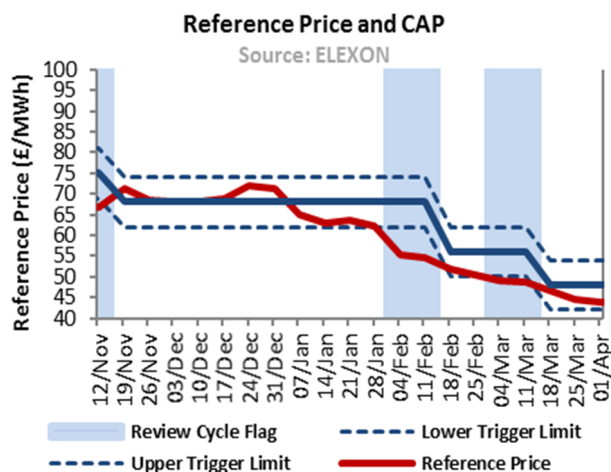
CAP BREACH ON 4 MARCH 2019

The Credit Assessment Price (CAP) was reduced from £68/MWh to £56/MWh on 6 March 2019.

A further review was triggered as the Credit Assessment Price (CAP) reference price was calculated at more than £6/MWh (the trigger level) below the CAP value. The falling CAP and reference price is following normal seasonal trends in falling towards the Summer.

A consultation was issued to recommend a new CAP value of **£48/MWh** with an implementation date of 9 April 2019. There has been no change to the trigger level, remaining +/- £6/MWh.

To help keep BSC Parties informed of the latest CAP information the data has been published using [interactive CAP graphs](#) to allow customers to explore this data.



BALANCING MECHANISM VOLUMES IN FEBRUARY²

The total volume of balancing actions taken in the Balancing Mechanism for February 2019 was 1,575GWh, a 27% decrease from January 2019. The majority (79%) of balancing volume in February came from Gas BMUs.

Accepted **Bid** volume increased by 14% from last month. Biomass and Coal Bid volumes decreased by 79% and 70% respectively, whilst Bid volume from other sources (Usually Battery BMUs) increased by 200%. Gas Bid volume accounted for 68%, and Wind 18%, of all Bid volume.

Accepted **Offer** volume increased by 45% from January 2019. Coal and Hydro Offer volumes decreased by 6

3% and 60% respectively. Gas and Wind Offer volume increased by 76% and 61% respectively. In February, Gas accounted for 92% of Offer volumes, whilst Pumped Storage accounted for 4% of Offer volumes.

Fuel Type	Bid Volume (MWh)		Offer Volume (MWh)	
	Feb-19	Jan-19	Feb-19	Jan-19
Coal	-37,915	-125,982	20,801	56,451
Gas	-563,870	-383,832	688,097	391,298
Hydro	-30,662	-21,577	2,969	7,458
OCGT	0	0	157	176
Pumped Storage	-44,306	-28,207	27,738	45,463
Wind	-145,717	-139,004	1,557	969
Biomass	-5,351	-25,805	5,330	14,030
Other	-227	-76	509	33
Grand Total	-828,049	-724,484	747,156	515,877

TRADING CHARGES IN FEBRUARY²

Gross Party Imbalance cashflows were £105.5m in February 2019, an increase of £38m from January Gross Party Imbalance cashflows. Credits for being long decreased by £19m, and debits for being short decreased by £19m, between January and February 2019.

Energy Imbalance Volumes decreased by 14% for Parties for that were long in February, and by 5% for those that were short.

February **Offer** cashflow increased by 27% and the volume of Offers increased by 45%, compared to the month before. The average price per MWh of Offer volume decreased by 12% to £70.65/MWh.

Net **Bid** cashflow was -£9.85m in February, compared to -£14.20m in January. February Bid cashflow decreased by 16% for negative Bids, and increased by 31% for positive Bids, compared to the month before.

Total Cashflow (£m)	Feb-19	Jan-19	Dec-18	Nov-18
Long Imbalance Charge (Credit)	-54.34	-73.40	-68.62	-67.67
Short Imbalance Charge (Debit)	51.19	70.06	68.91	70.54
RCRC Credit	6.95	9.02	12.84	14.03
RCRC Debit	-10.11	-12.36	-12.55	-11.17
Offer Cashflow	52.79	41.52	60.18	58.76
Bid Cashflow (Positive Bids)	-20.29	-24.16	-31.15	-27.88
Bid Cashflow (Negative Bids)	10.44	9.96	11.92	10.60

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