

Trading Operations Report - Consultation

Chris Braley 23 January 2014





What are we proposing and why?

What is ELEXON proposing?

FI FXON want to:

- Update and develop the Trading Operations Report
- Ensure it meets customer requirements
- Enhance and improve the commentary and descriptions
- Establish Trading Operations as a dynamic report to enable relevant information to be added on a monthly basis where needed
- Remove unnecessary or unused information
- Restructure the report into subject areas
- Add in new information which helps offer more insight on the market

Why are we proposing this?

This proposal is to:

- Increase the usability of the report and relevance for customers
- Make it easier for customers to understand what is being presented without assistance
- Ensure the report is meeting its purpose of "publishing key market data graphically whilst giving a performance indicator for the Balancing and Settlement Code arrangements"
- Make it easier for customers to navigate
- Reduce the average length of the Trading Operations Report



Consultation details

- Please respond if the changes being proposed meet your needs
- Consultation period: 23 January 2014 21 February 2014

Next steps

- Receive and discuss responses
- Take the proposal/responses to The SVG, The ISG and The BSC Panel
- Go live with new report by May 2014.

Please send comments or responses to Chris Braley:

chris.braley@elexon.co.uk; 0207 380 4108





Summary of changes

The following table refers to graphs/tables within the different sections of the current Trading Operations Report

Add	Change	Remove	Кеер
 2 new graphs on pricing 1 new graphs on bid/offer volumes 2 new graphs on cash flow. 	2.02, 2.03, 2.06, 2.07, 2.08, 2.12, 2.13, 2.15, 2.16, 3.01, 3.02, 3.04, 3.12, 3.37, 4.03, 4.04, 4.11, 4.12.	2.01, 2.04, 2.05, 2.09, 2.14, 3.08, 3.11, 3.14, 3.15, 3.16, 3.17, 3.18, 3.20, 3.23, 3.24, 3.25, 3.26, 3.27, 3.29, 3.33, 3.34, 3.35, 3.38, 4.07, 4.08, 4.09, 4.10, 4.13.	2.10, 2.11, 3.03, 3.05, 3.06, 3.07, 3.09, 3.10, 3.13, 3.19, 3.21, 3.22, 3.28, 3.30, 3.31, 3.32, 3.36, 4.01, 4.02, 4.05, 4.06.

Graphs/Tables we are proposing to remove are because we do not feel they offer any insight or information needed by our customers

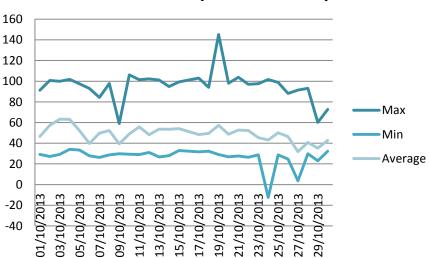
Proposed below are the new subject headings to replace Headline Statistics, CVA Market Charts and SVA Market Charts

System Performance	Prices	Credit	Imbalance Volumes
Cash flows	Demand	GSP GCF	Energy Settled on Metered Data
Generation	Transmission Losses	Metering	



New graphs: pricing

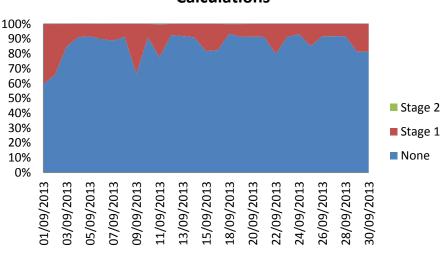
Main Price by Settlement Day



For each half hour trading period, depending on the net position of National Grid Transmission System, one of the 'cash-out' or 'energy imbalance' prices (System Sell Price and System Buy Price) will be associated with Balancing Mechanism Bids and Offers. In this case the price will be known as the 'main' price.

The main energy imbalance price is calculated using the balancing actions that the SO accepted for that Settlement Period. Parties whose imbalance is in the opposite direction to the Transmission System will be charged their imbalance at the main energy imbalance price.

Flagged Balancing Actions in System Price Calculations



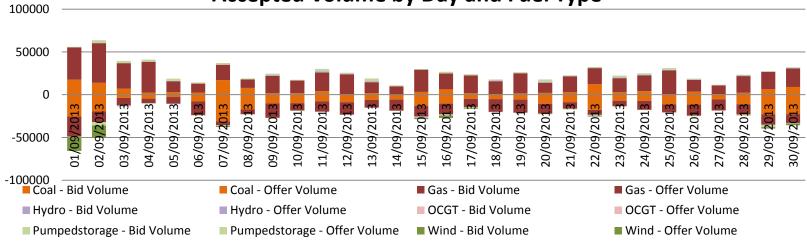
The purpose of this graph is to monitor price calculations. The graph shows the ration of system balancing actions (stage 1 and 2) to energy balancing actions (none). Stages 1 and 2 reflect balancing done through the system, either by system operator or once the offer is placed. The blue shaded part of the graph represents the actions taken by National Grid. Bigger the red and green area means worse performance of the system.





New graphs: accepted bid/offer volumes





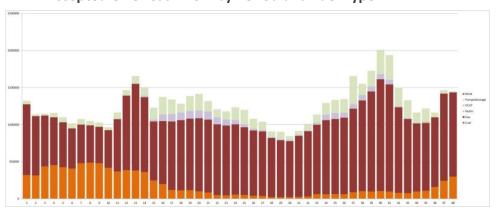
The chart shows how the energy bids and offers were distributed each day by generation fuel type. A Bid is a proposal to reduce generation or increase demand and an offer is a proposal to increase generation or reduced demand. This is used by the system operator to balance the market to best satisfy the balancing requirements of the transmission system. Looking at the fuel type it shows which type of BMUs are mainly used to balance the system.





New graphs: cash flows

Accepted Offer Cash flow by Period and Fuel Type



The two graphs depict the cash flow associated with accepted bids and offers by Period and Fuel Type. It provides an insight into how much do balancing actions cost and how the amount is influenced by the time of day and type of BMU used for balancing.

Accepted Bid Cash flow by Period and Fuel Type

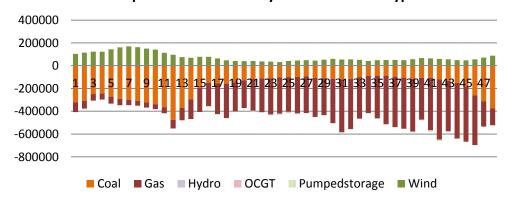
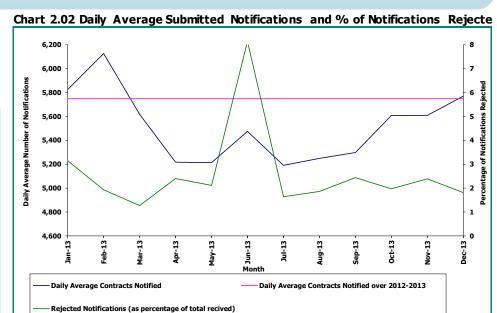




Table 2.06 Price Derivation Codes

	Description (Code)	% of Occurrences			
		Dec 13	Nov 13	Oct 13	
ket	NIV is Positive: SBP is the Main Price				
Short Market	SSP = Reverse Price (A)	34.21	36.18	38.66	
ort	SSP capped to SBP (B)	0.94	1.18	2.21	
ر ک	SSP defaulted to SBP (C)	0.00	0.00	0.00	
	SSP & SBP defaulted to Market Price (D)	0.00	0.00	0.00	
	SSP & SBP defaulted to Zero (E)	0.00	0.00	0.00	
ket	NIV is Negative: SSP is the Main Price				
Mar	SBP = Reverse Price (F)	58.13	57.92	53.96	
Long Market	SBP capped to SSP (G)	6.72	4.72	5.17	
]	SBP defaulted to SSP (H)	0.00	0.00	0.00	
	SSP & SBP defaulted to Market Price (I)	0.00	0.00	0.00	
	SSP & SBP defaulted to zero (J)	0.00	0.00	0.00	
ced	NIV is Zero				
Balanced Market	SSP & SBP defaulted to Market Price (K)	0.00	0.00	0.00	
Ğ	SSP & SBP defaulted to zero (L)	0.00	0.00	0.00	



Changes

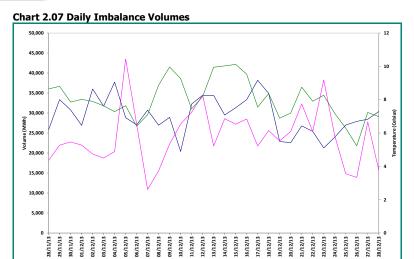
2.02

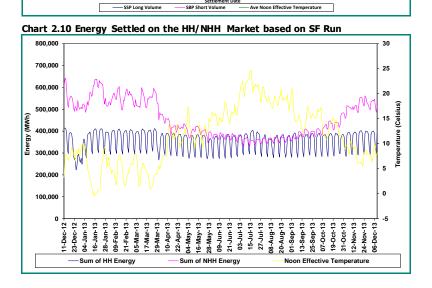
 Add in a threshold to show where rejections move outside the norm

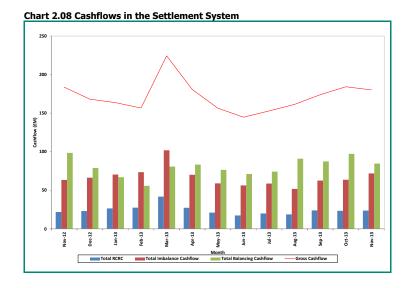
2.06

 Change to a graph showing the percentages of long and short market occurrences for every month over the last year









Changes

2.07

 Change the long and short volume to a stacked chart to allow for easier viewing

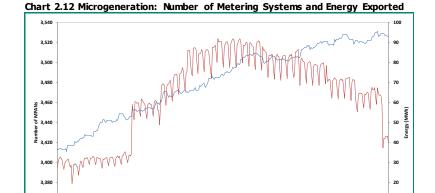
2.08

 Move to a stacked chart and remove the gross cash flow as this will be shown by the height of the bars

2.10

 Change to a table showing, sum of HH settled volume, sum of NHH settled volume, Average Noon Effective temperature for each season and compare with the previous year





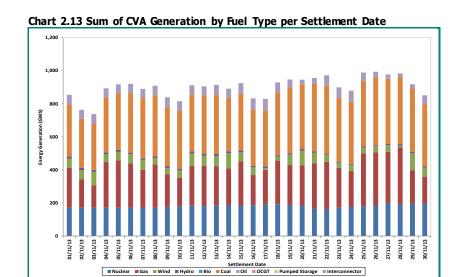
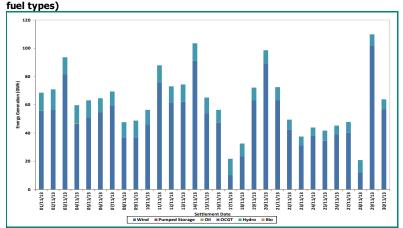


Chart 2.15 Sum of CVA Generation by Fuel Type per Settlement Date (less used fuel types)



Changes

2.12

Better explanations and commentary

2.13

Change to area graph and show detail for a whole year

2.15

Show data for wind only





Table 3.01 Credit Defaults/ Credit Cover Percentages

Period No. of Partie in Query		No. of Parties in Credit Default		Party Maximum Credit Cover Percentage (%)					(%)	
	Period	Level 1	Level 2	>100	90-100	80-90	60-80	30-60	10-30	<10
Dec-13	2	0	0	1	1	0	7	10	27	214
Nov-13	2	0	0	2	0	0	3	8	22	224
Oct-13	1	0	0	0	0	1	2	12	22	222
Dec-12	0	0	0	0	0	0	3	11	15	213



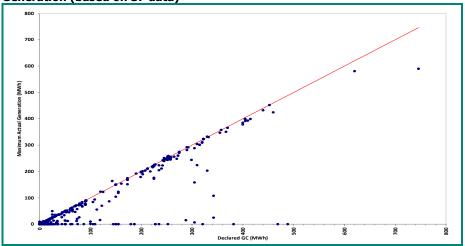
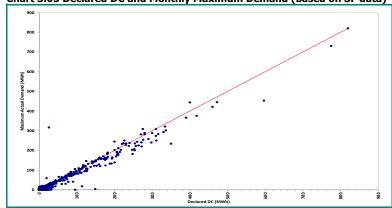


Chart 3.05 Declared DC and Monthly Maximum Demand (based on SF data)



Changes

3.01

Move to a graph showing trends over an annual term

3.05

 Change the graph to show only where Maximum Demand is greater than DC

3.06

Change the graph to show only where Maximum Generation is greater than GC



Chart 3.12 Monthly Average SSP (£/MWh) and Standard Deviation

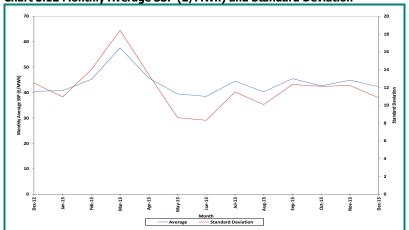


Chart 3.36 Weekly Max, Min and Average Offtaking Transmission Loss Multiplier (TLM)

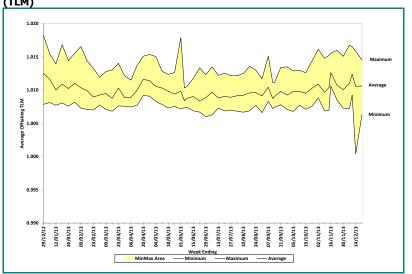
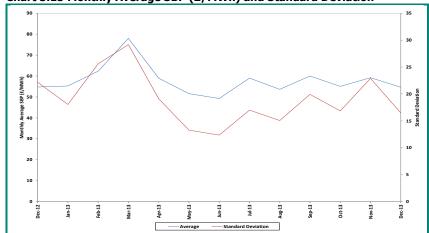


Chart 3.15 Monthly Average SBP (£/MWh) and Standard Deviation



Changes

3.12 & 3.15

• Combine these two graphs, add in market price and remove the standard deviation

3.36

 Move to using SF data only to make this consistent with other views in the report



Chart 4.01 Distribution of Half-Hour GSP Group Correction Factors across all GSP Groups

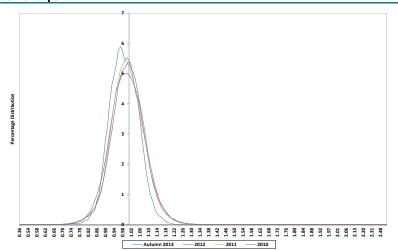


Chart 4.11 Minimum GSP Group Take based on SF Run

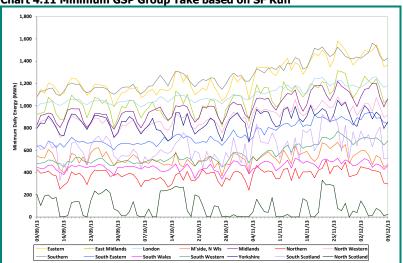
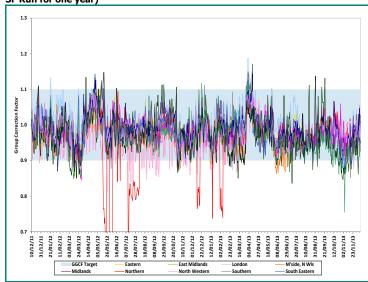


Chart 4.03 Daily Average GSP Group Correction Factor by GSP Group (based on SF Run for one year)



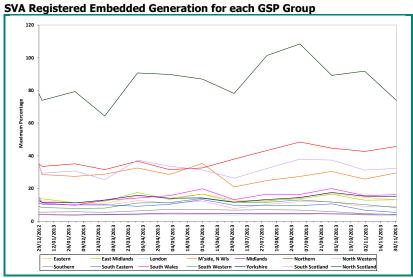
Changes

4.01

- Move this graph to compare seasons only
- 4.03
- Ensure the legend is expanded to show all areas 4.11
- Introduce a shaded area up to 500MWh to show the GSPs close to exporting



Chart 4.12 Percentage of Maximum GSP Group Metered Volume Supplied by



Changes

4.12

Move from percentage to show total volume by GSP area



Table 2.01 Energy Contract Volume Notification Submissions

_	Dec-13 Normal Web based		Nov-13		Oct-13	
			Normal	Web based	Normal	Web based
Received	178688	166	167987	282	173552	276
Rejected	3226	0	4015	0	3415	0
Total % Rejected	1.81%		2.39%		1.97%	

Table 2.04 System Sell Price

	Min	Max	Median	Mean	St. Dev
Dec 2013	3.89	101.70	42.03	42.30	10.85
Nov 2013	17.29	161.73	41.94	44.91	12.22
Oct 2013	-12.45	95.17	40.35	42.61	12.14
Dec 2012	1.38	159.34	38.76	40.52	12.52

Table 2.05 System Buy Price

	Min	Max	Median	Mean	St. Dev
Dec 2013	16.84	156.71	53.32	54.67	16.47
Nov 2013	28.12	343.53	55.40	59.21	22.91
Oct 2013	21.11	145.06	53.74	55.08	16.86
Dec 2012	23.53	239.79	50.10	54.76	22.20







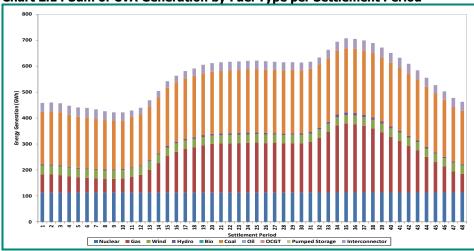
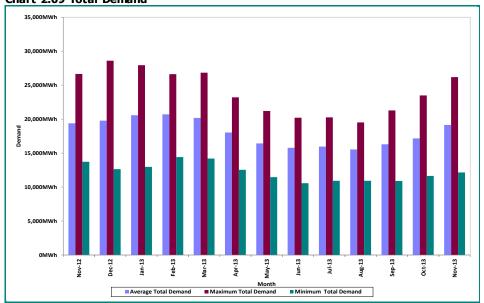
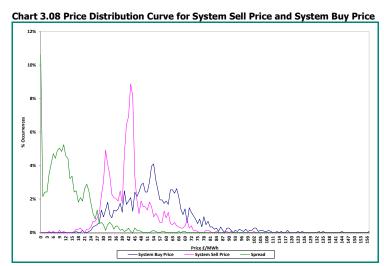
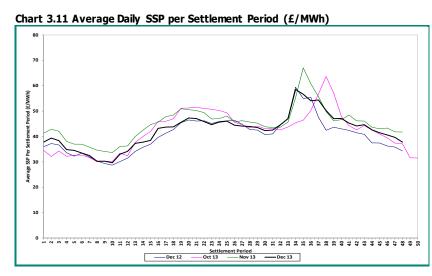


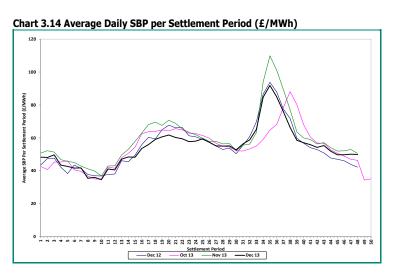
Chart 2.09 Total Demand

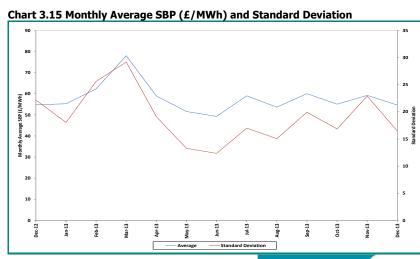




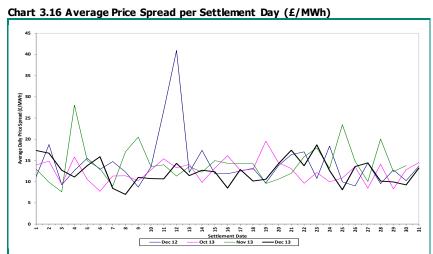


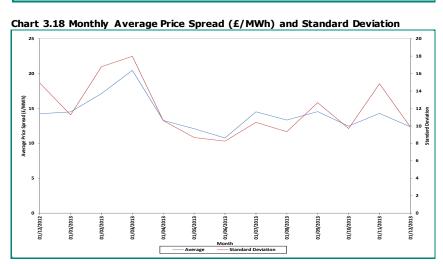


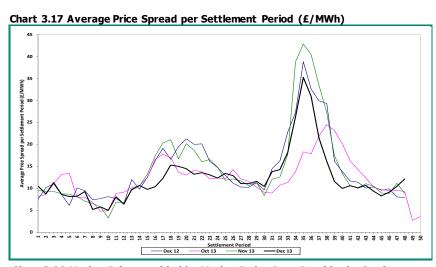












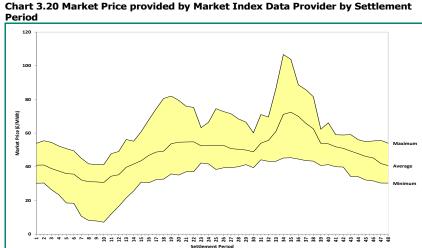




Chart 3.23 Percentage of occasions where SBP=SSP by Settlement Date

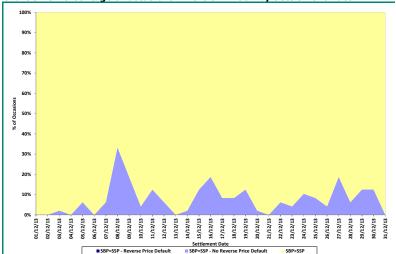


Chart 3.25 Live (P217) Imbalance Prices in comparison to Prices Calculated Using the Pre P217 Price Methodology (Daily Average)

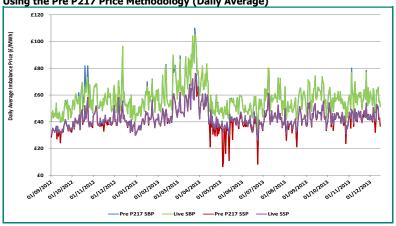


Chart 3.24 Percentage of occasions where SBP=SSP by Settlement Period

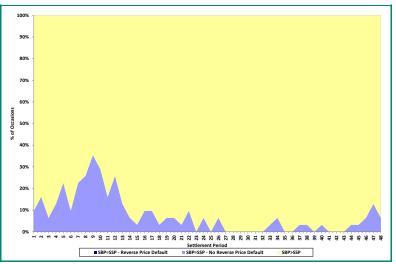


Chart 3.26 Live (P217) Imbalance Prices Minus Prices Calculated Using the Pre P217 Price Methodology (Daily Extremes)

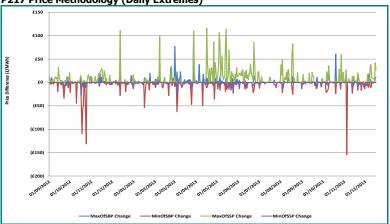




Chart 3.27 Live (P217) Change in Pre P217 and Live Imbalance Prices for the

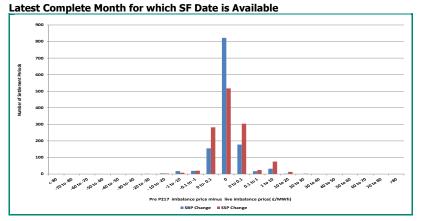


Chart 3.33 Total System Residual Cashflow per Metered MWh by Settlement Period

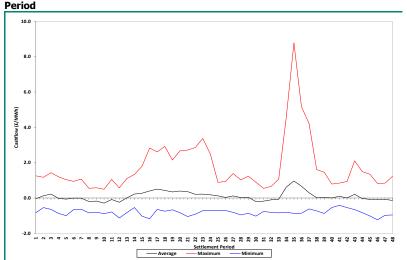


Table 3.34 Total System Residual Cashflow (£/MWh)

	Average	Maximum	Minimum
Nov-13	0.11	1.96	-0.76
Oct-13	0.14	3.40	-1.17
Sep-13	0.26	3.54	-1.29
Nov-12	0.16	3.24	-1.14

Chart 3.29 Net Imbalance Volume by Settlement Period at Latest Run Type

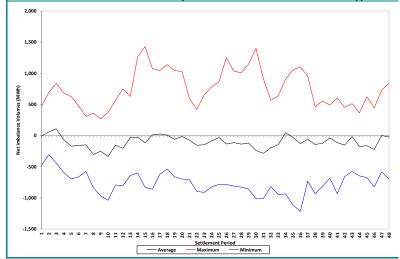




Chart 3.35 Weekly Transmission Losses for latest Settlement Run Type

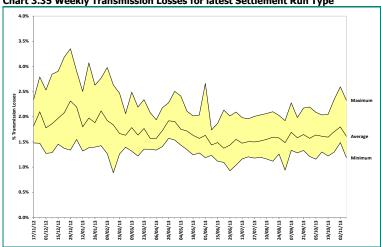


Chart 4.07 Percentage of HH Energy Settled on Actuals by GSP Group based on

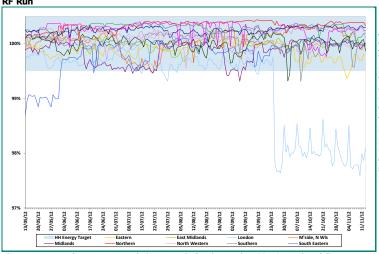


Chart 3.38 System Imbalance and Reserve Available on Part Loaded Generation - Settlement Periods of Daily Maximum and Minimum Demand

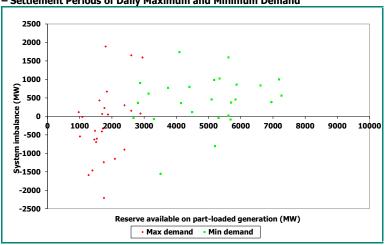


Chart 4.08 Percentage of NHH Energy Settled on Actuals by GSP Group based

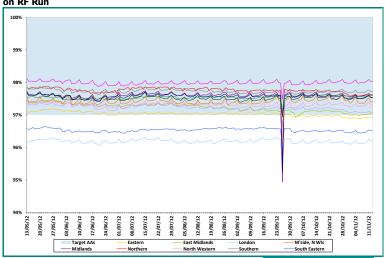




Chart 4.09 Percentage of NHH Meters Settled on Default EACs by GSP Group based on RF Run

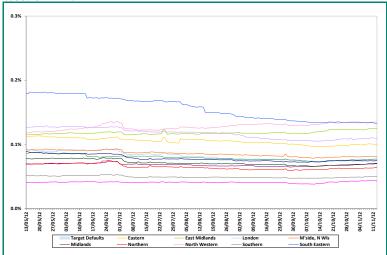


Chart 4.13 Sum of the Relevant Capacities of the BM Units in each Base Trading Unit

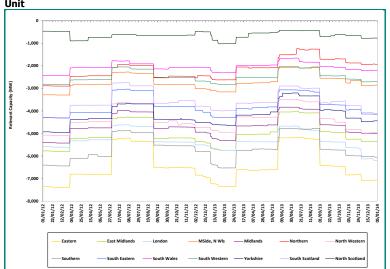


Chart 4.10 Erroneous large EACs/AAs: Market Supplier Energy Allocation Error at RF and DF by Settlement Month

