P205 – Energy Imbalance Price Data

7 August 2006

ELEXON

Data Provided

The following slides provide imbalance pricing data to support progression of Modification Proposal P205 – 'Increase in PAR level from 100MWh to 500MWh'

Data is provided for the baseline average methodology and under P194 (for PAR = 100 and PAR = 500) as follows:

- PAR as a percentage of NIV (05/06)
- Settlement Period prices and NIV for sample Settlement Days (05/06)
- Average Imbalance Prices by Month (05/06)
- Average SSP and SBP as Main Price by Settlement Period (04/5 and 05/06)
- Average Main Price to Market Price differential by Settlement Period (04/5 and 05/06

Sample Settlement Period data for 04/05 from the P194 Assessment Procedure is provided separately

Raw data for the period 04/06 is provided in a separate spreadsheet

Data Provision Dates – 05/06

Data is provided for the following Sample Settlement Periods from 05/06:

Summer (Apr 05 - Aug 05)

- Peak 08/04/05
- Off Peak 10/07/05

Winter (Oct 05 - Feb 06)

- Peak 28/11/05
- Off Peak 02/10/05

Autumn Equinox (Sep 05)

- Peak 28/09/05
- Off Peak 04/09/05

Spring Equinox (Mar 06)

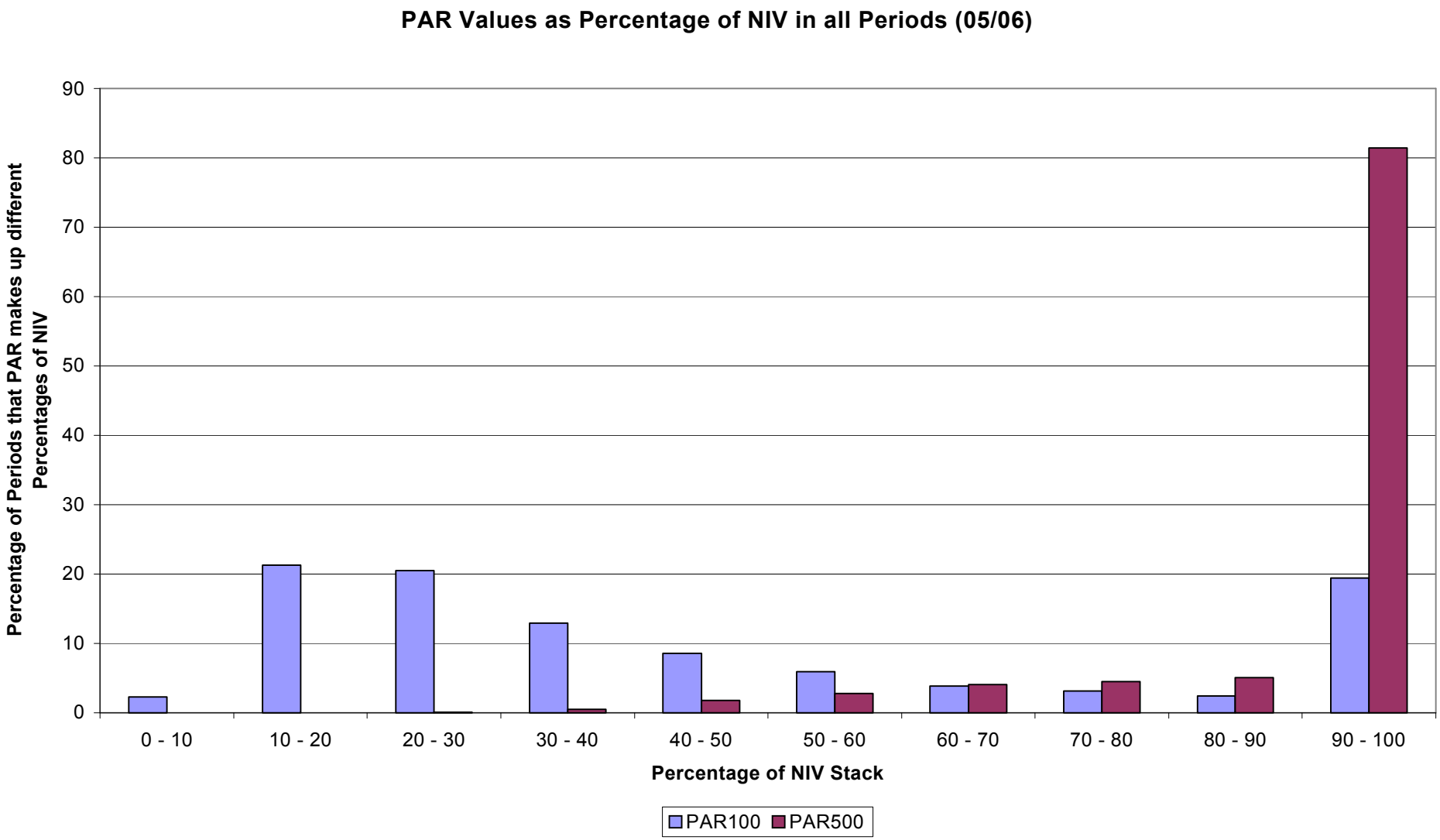
- Peak 01/03/06
- Off Peak 26/03/06

17/18 July 2006

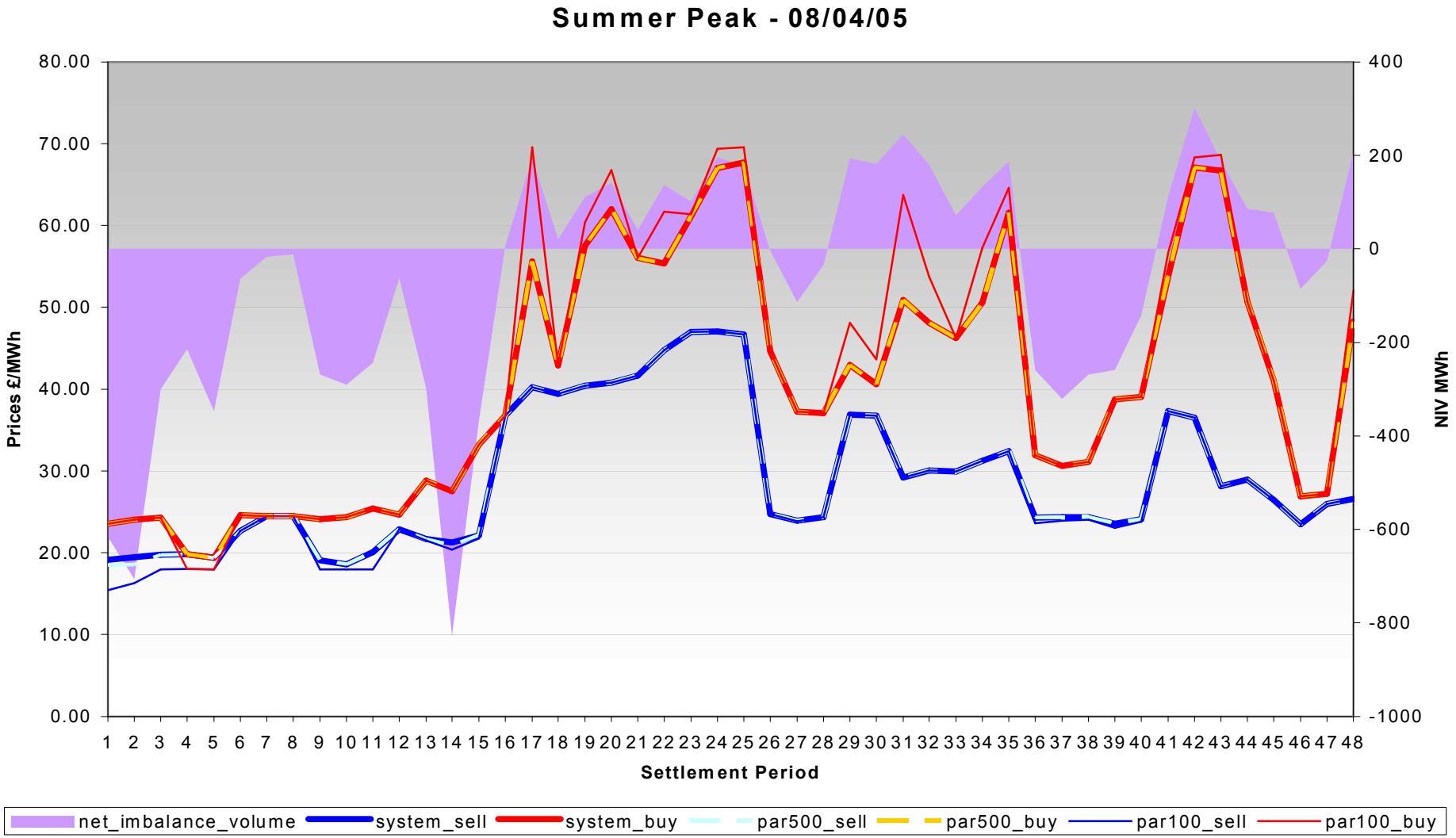
Peak determined as day containing Settlement Period with highest Demand Period

Off Peak determined as day containing Settlement Period with lowest demand period

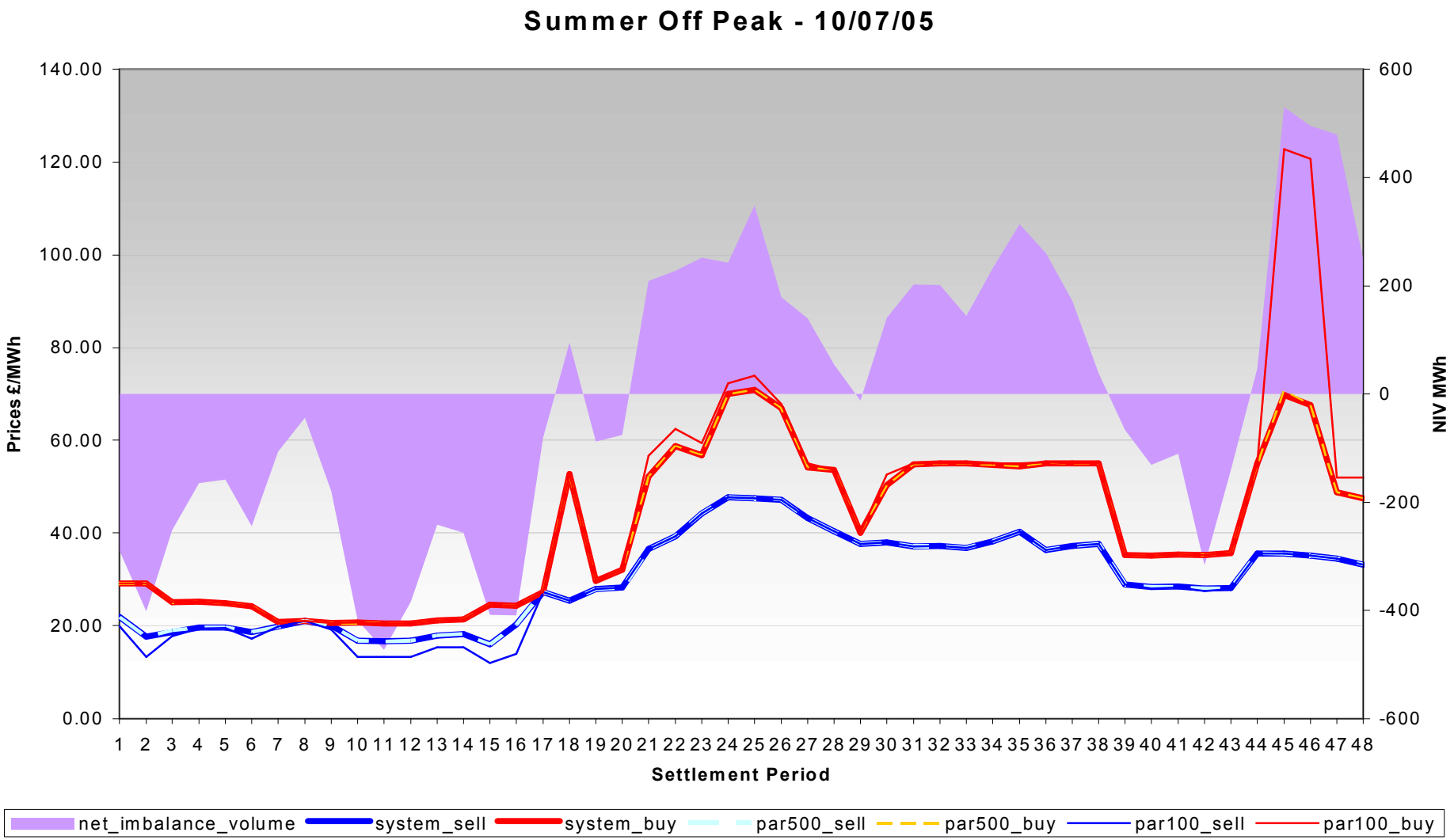
PAR as Percentage of NIV



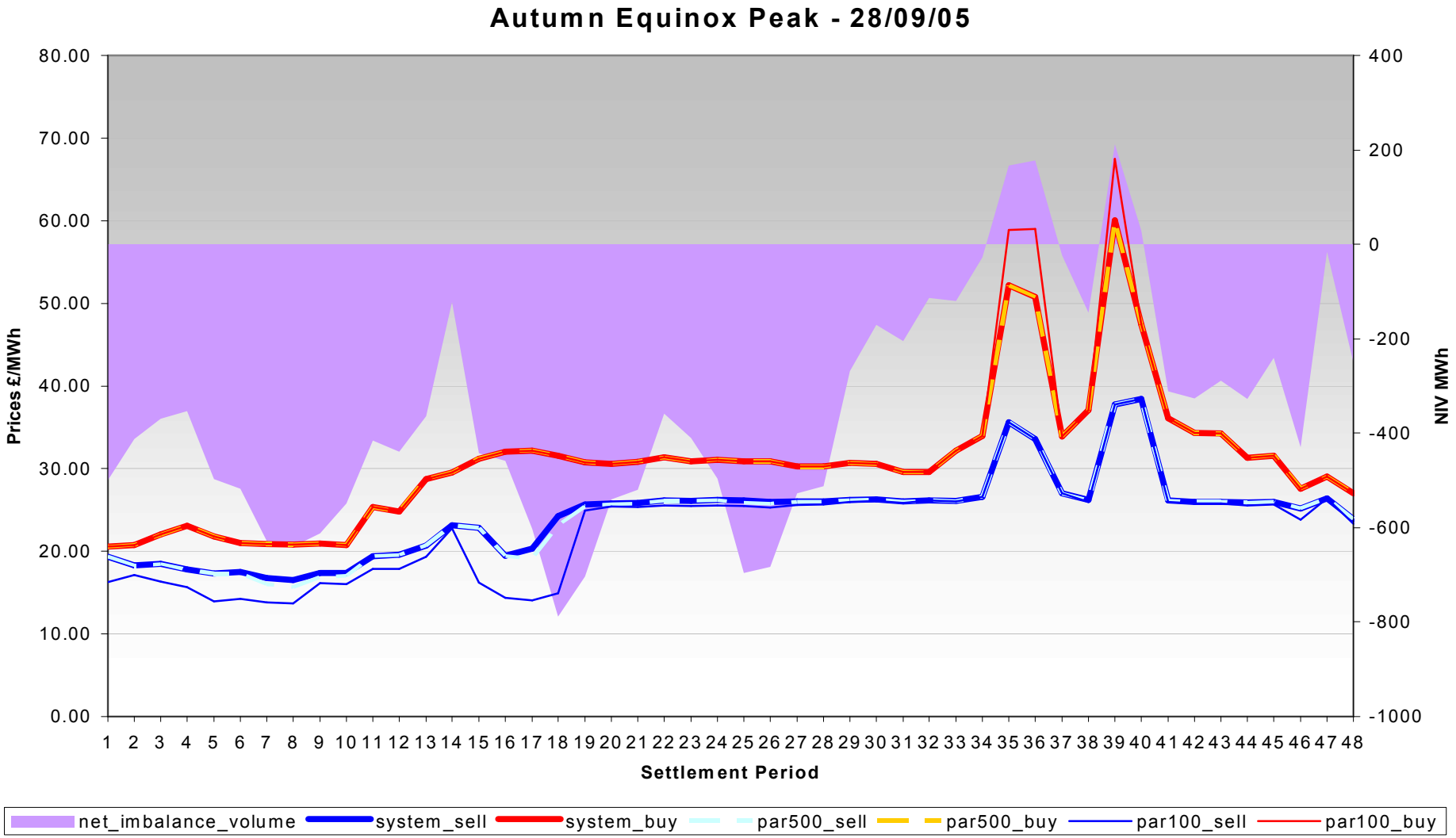
Summer Peak - 05/06



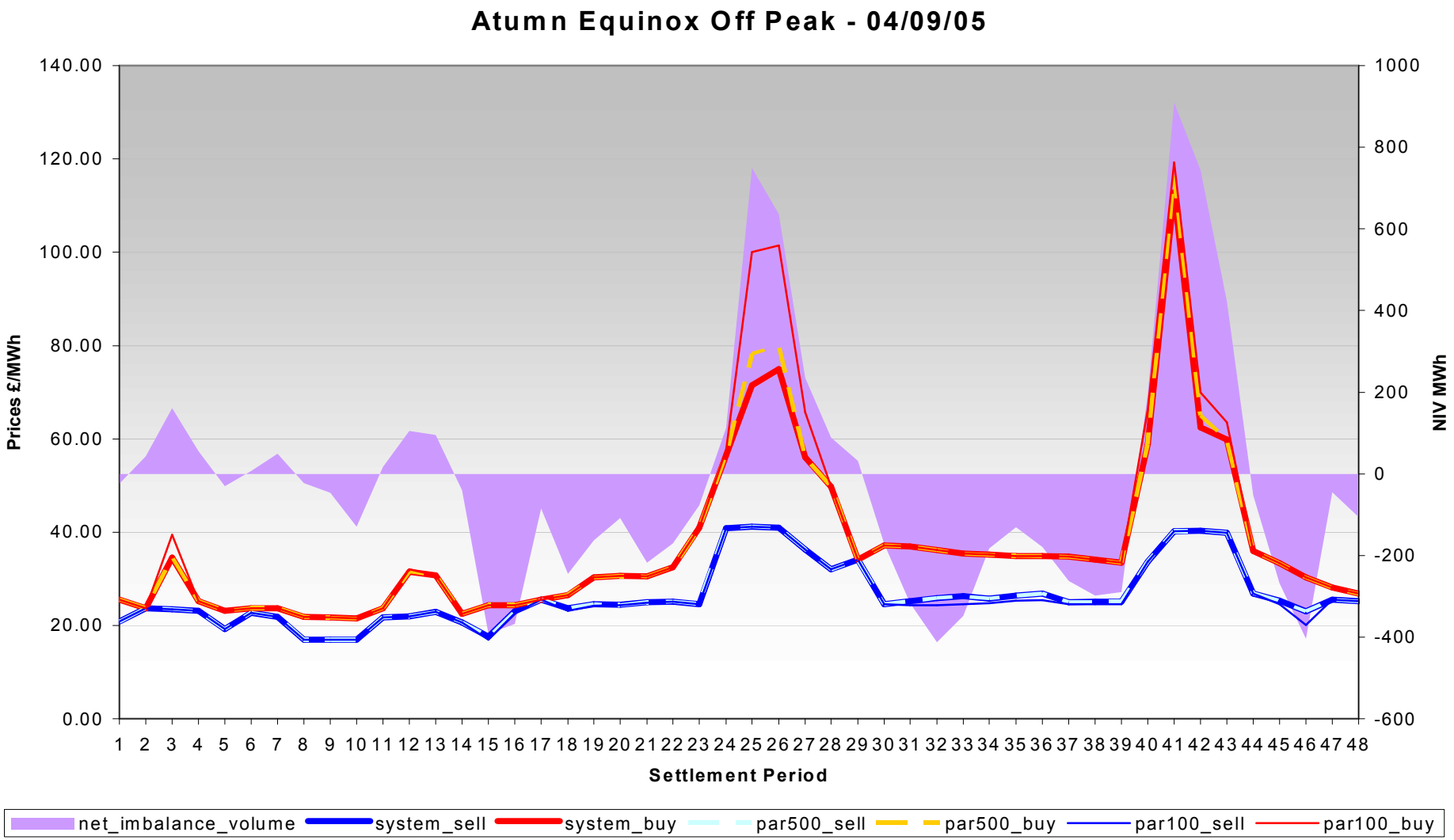
Summer Off Peak - 05/06



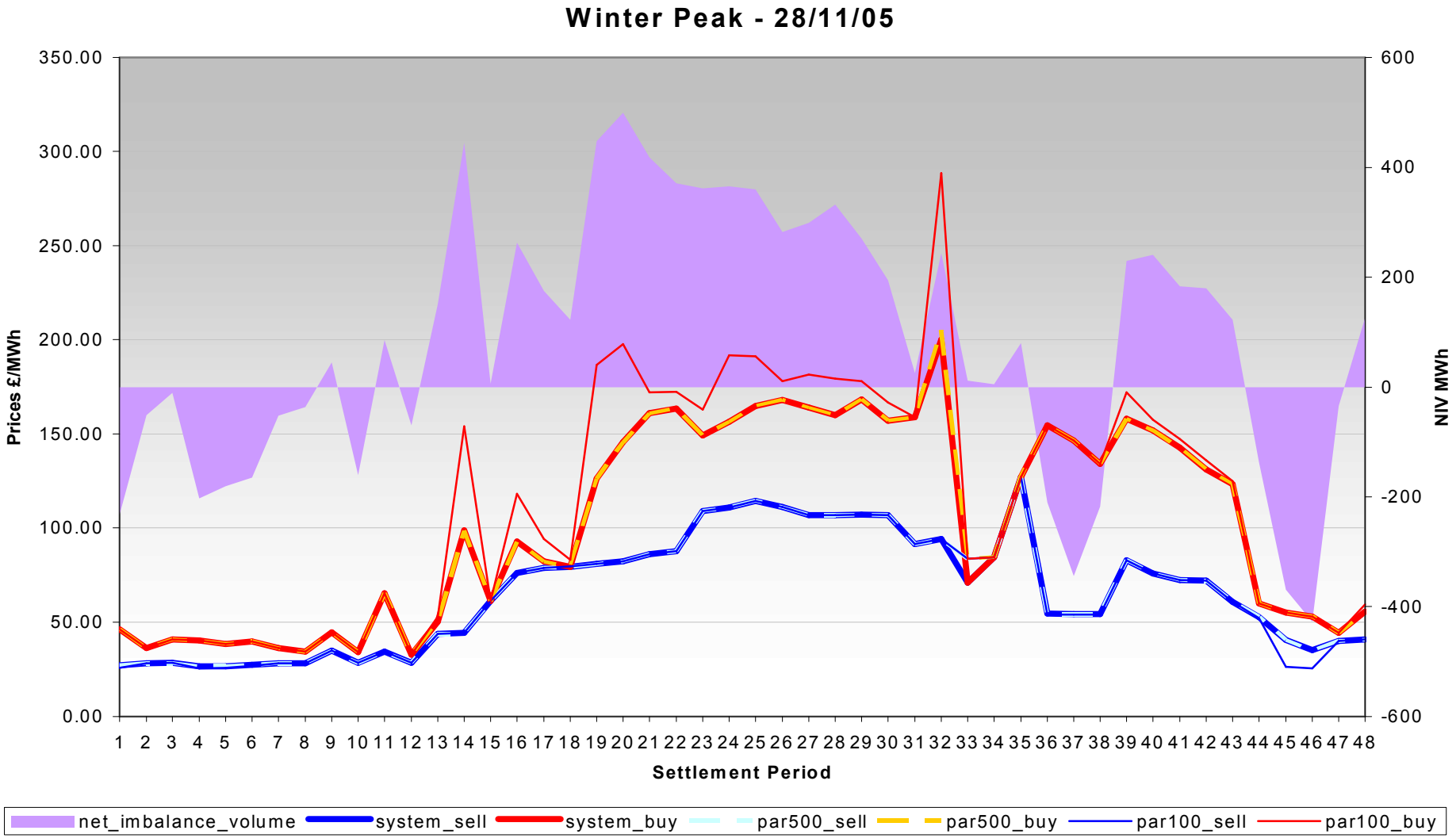
Autumn Equinox Peak - 05/06



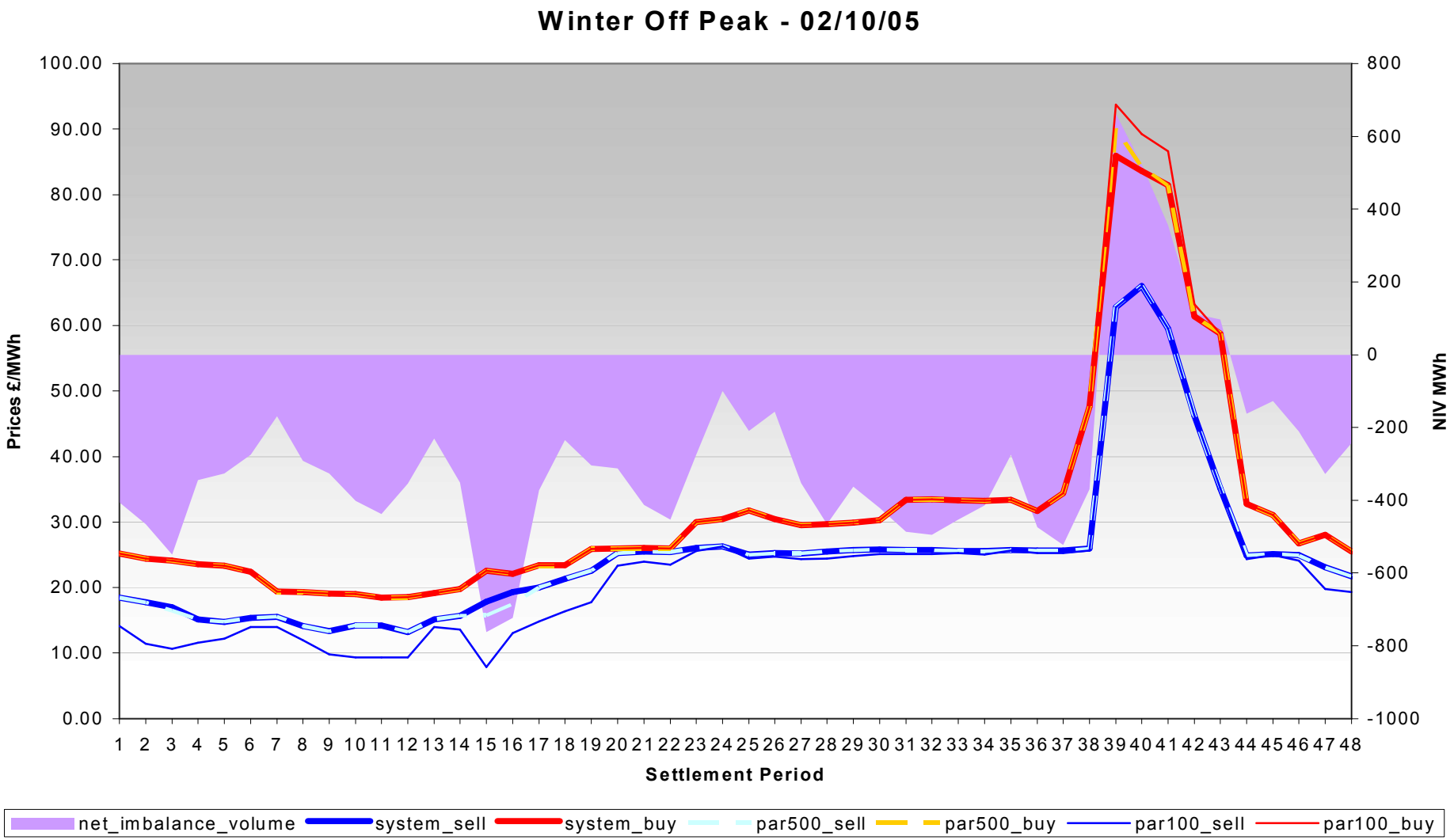
Autumn Equinox Off Peak - 05/06



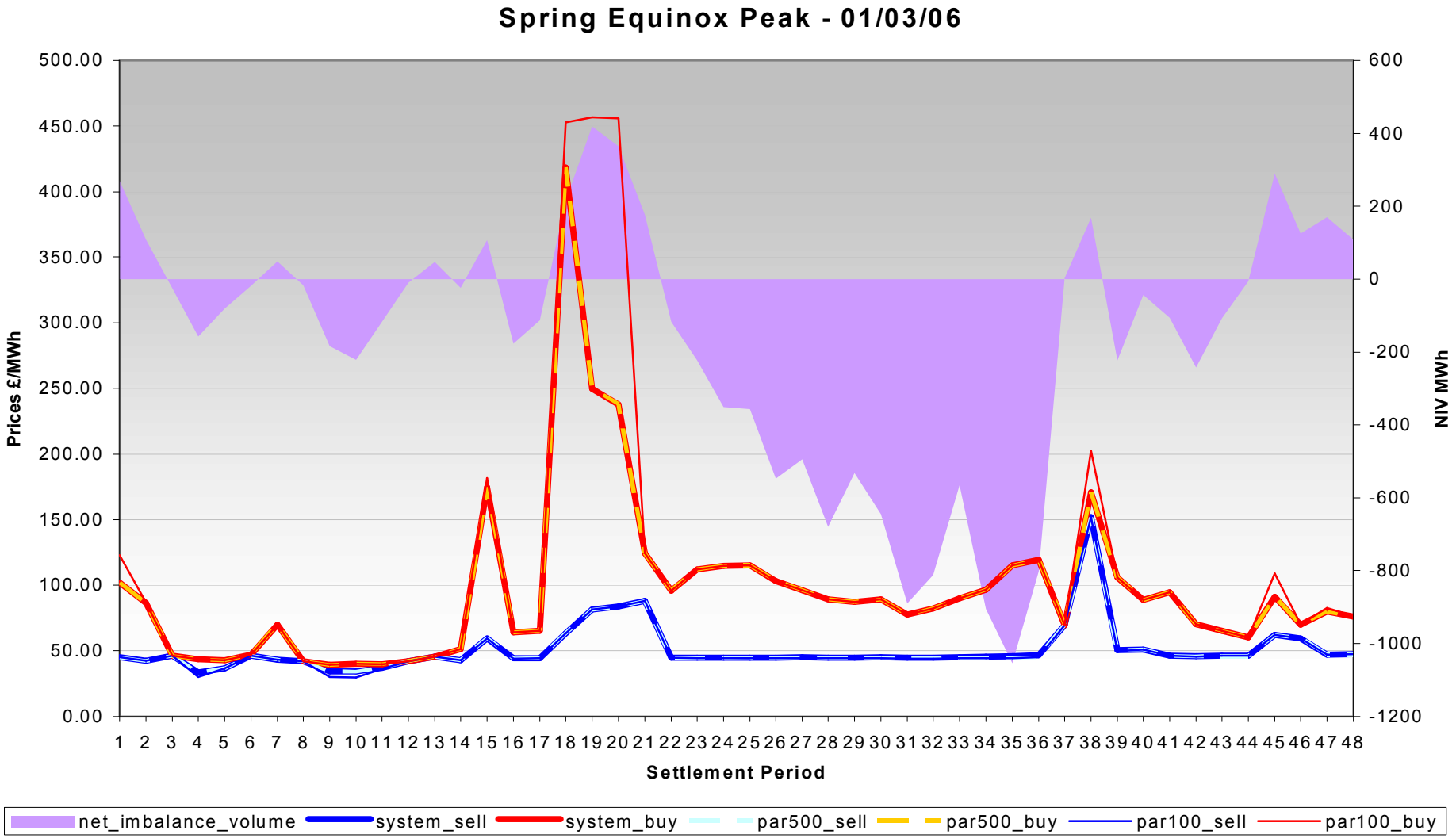
Winter Peak - 05/06



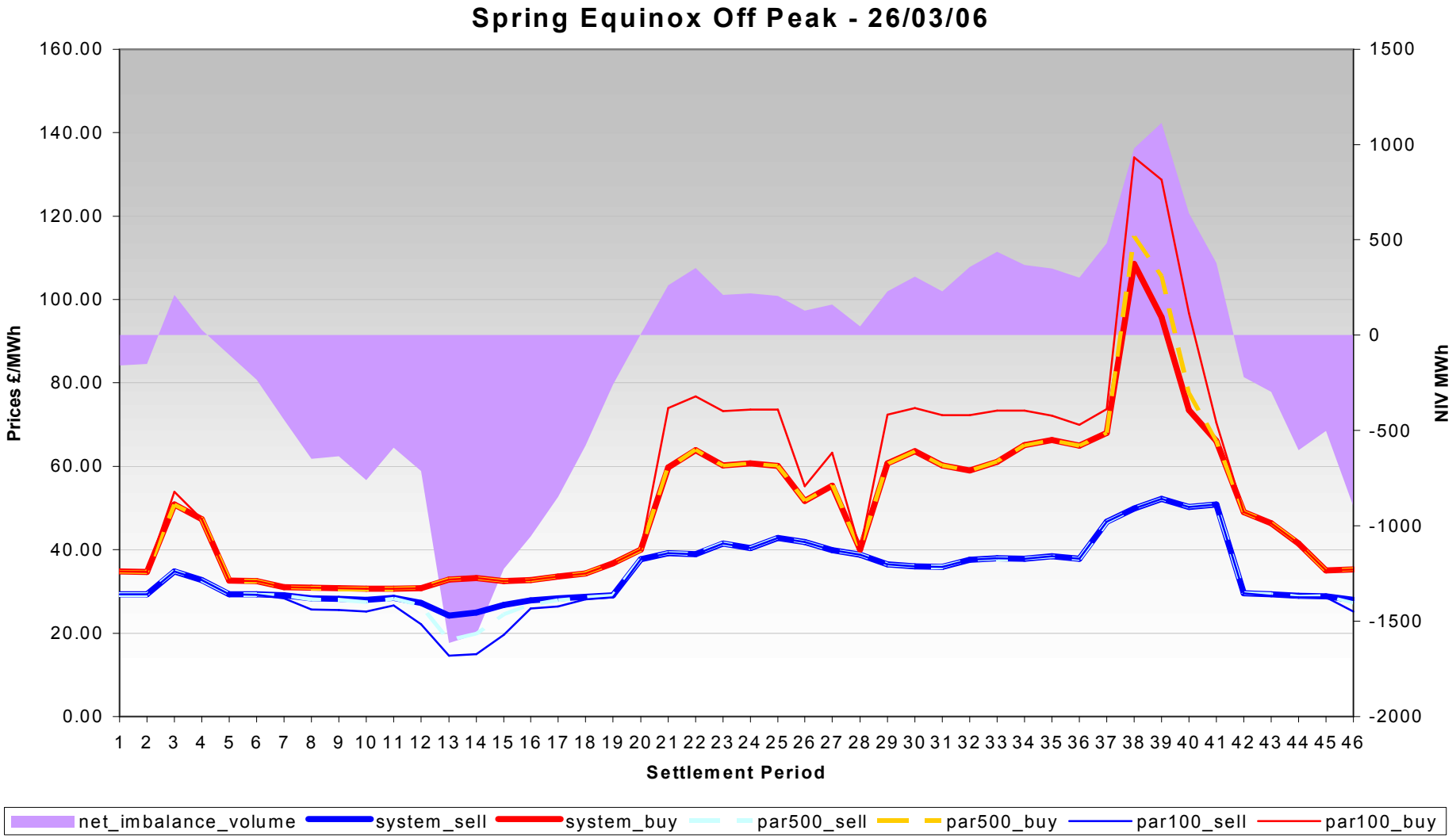
Winter Off Peak - 05/06



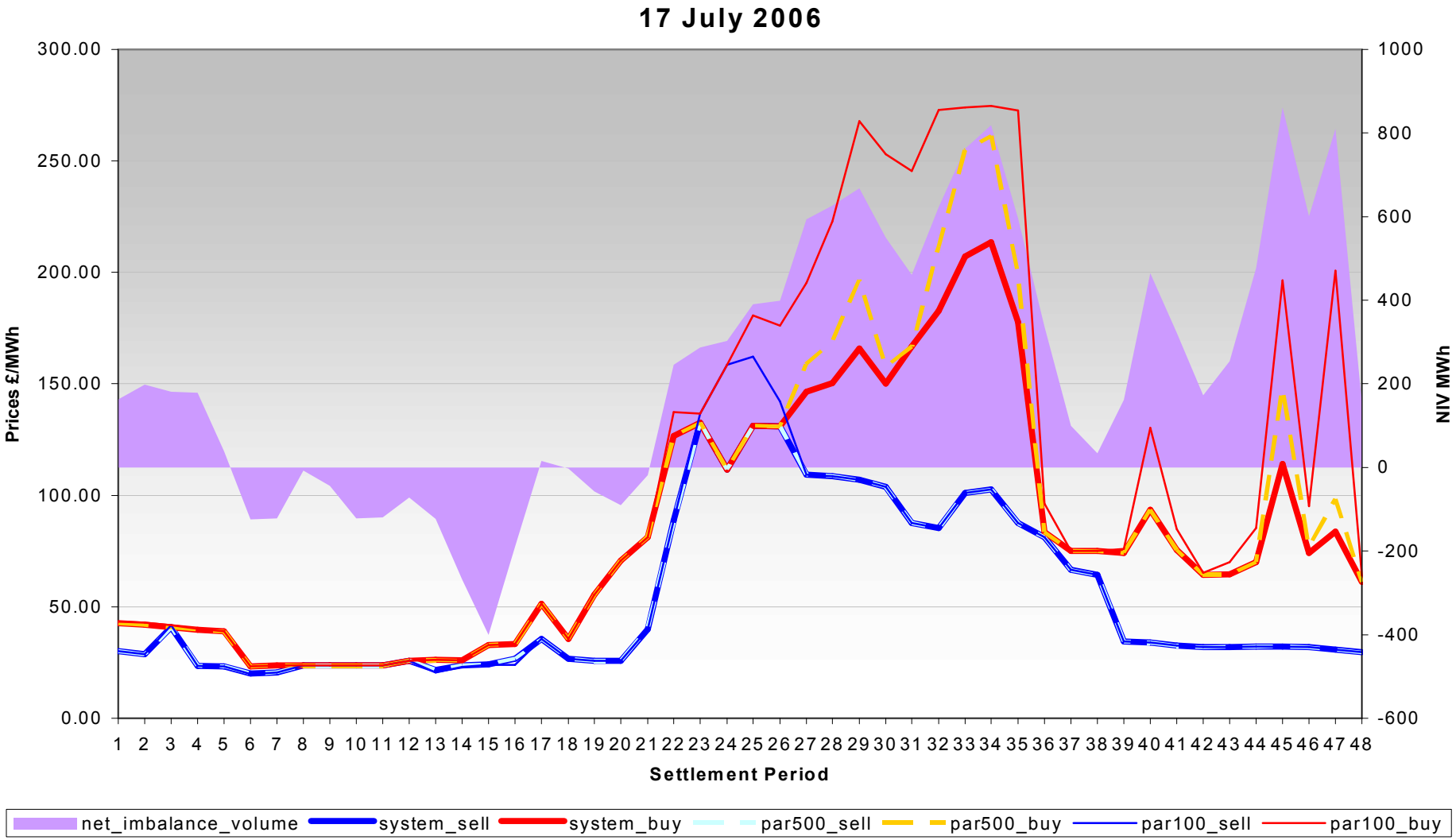
Spring Equinox Peak - 05/06



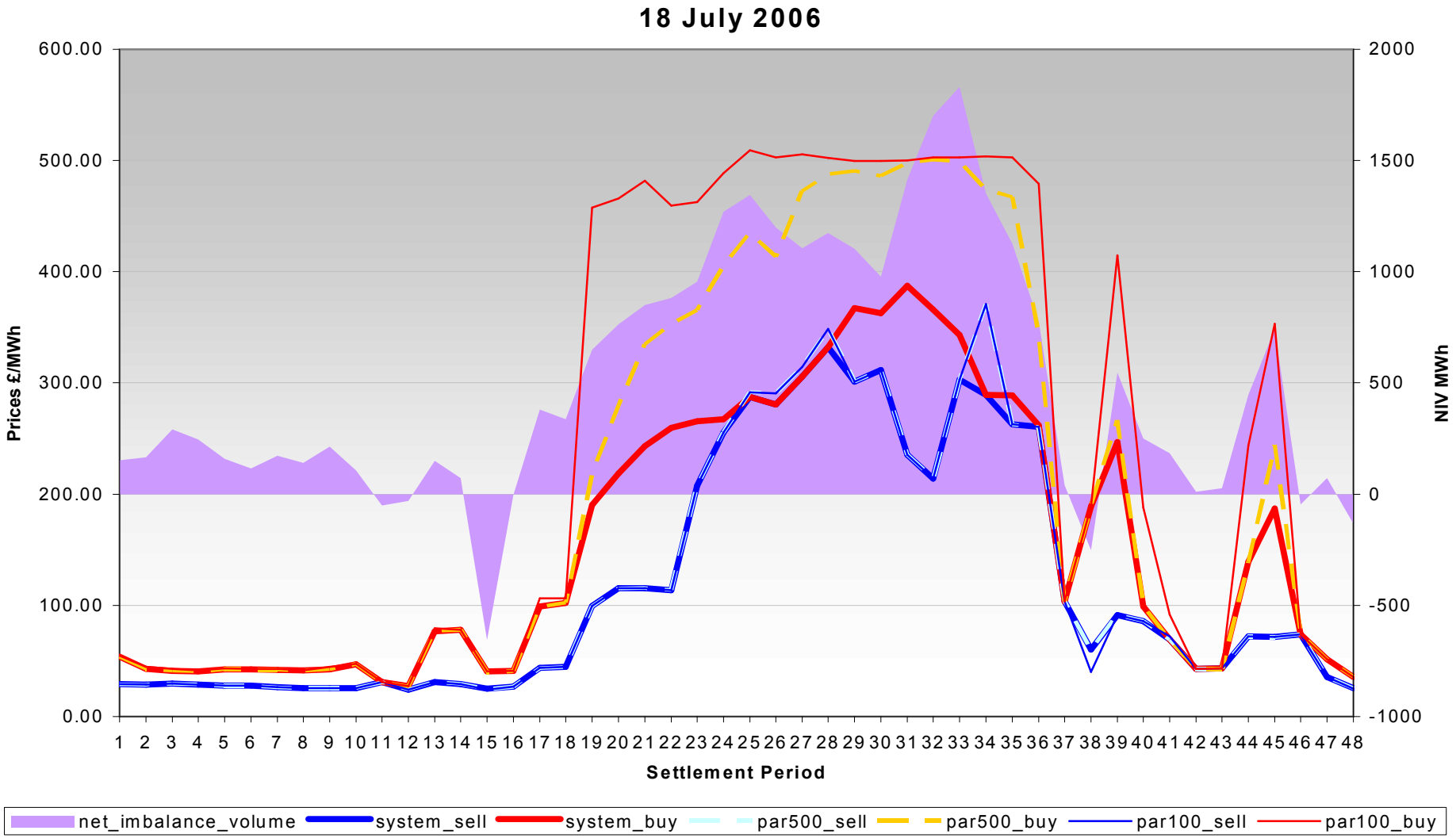
Spring Equinox Off Peak - 05/06



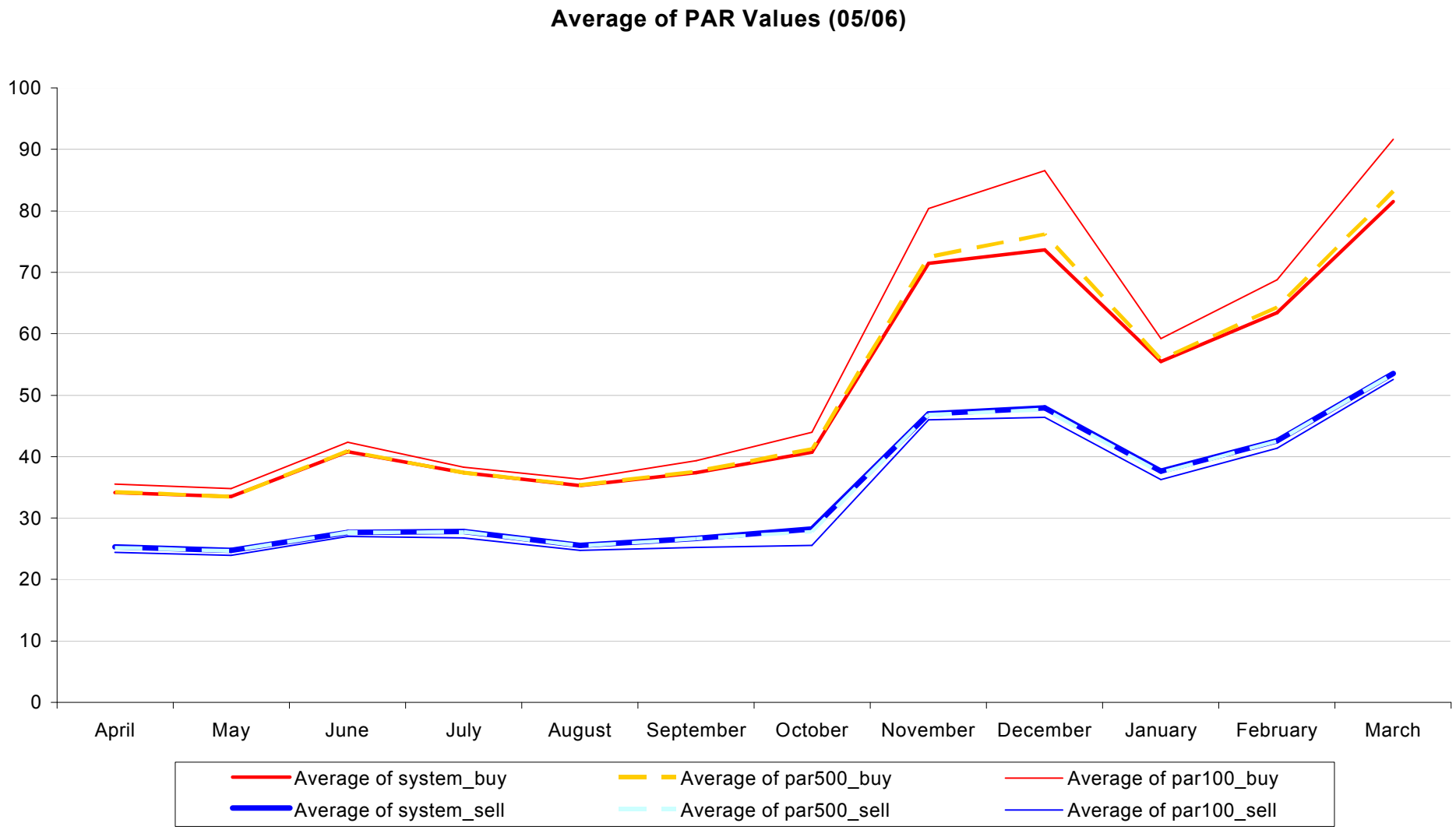
17 July 2006


17 July 2006
Prices £/MWh
NIV MWh
Settlement Period
300.00
250.00
200.00
150.00
100.00
50.00
0.00
1000
800
600
400
200
0
-200
-400
-600
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
net_imbalance_volume
system_sell
system_buy
par500_sell
par500_buy
par100_sell
par100_buy

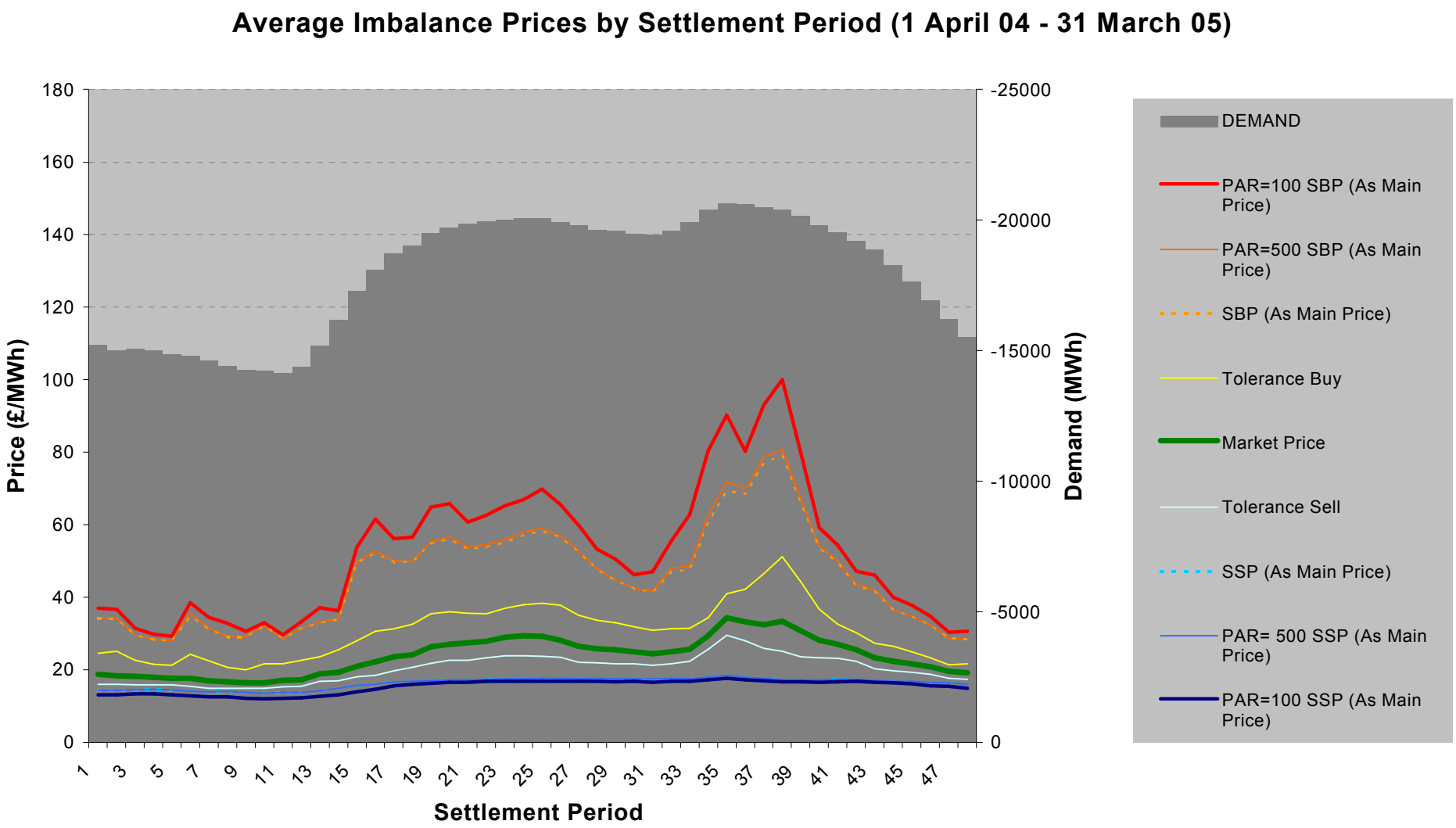
18 July 2006


18 July 2006
Prices £/MWh
NIV MWh
Settlement Period
600.00
500.00
400.00
300.00
200.00
100.00
0.00
2000
1500
1000
500
0
-500
-1000
net_imbalance_volume
system_sell
system_buy
par500_sell
par500_buy
par100_sell
par100_buy

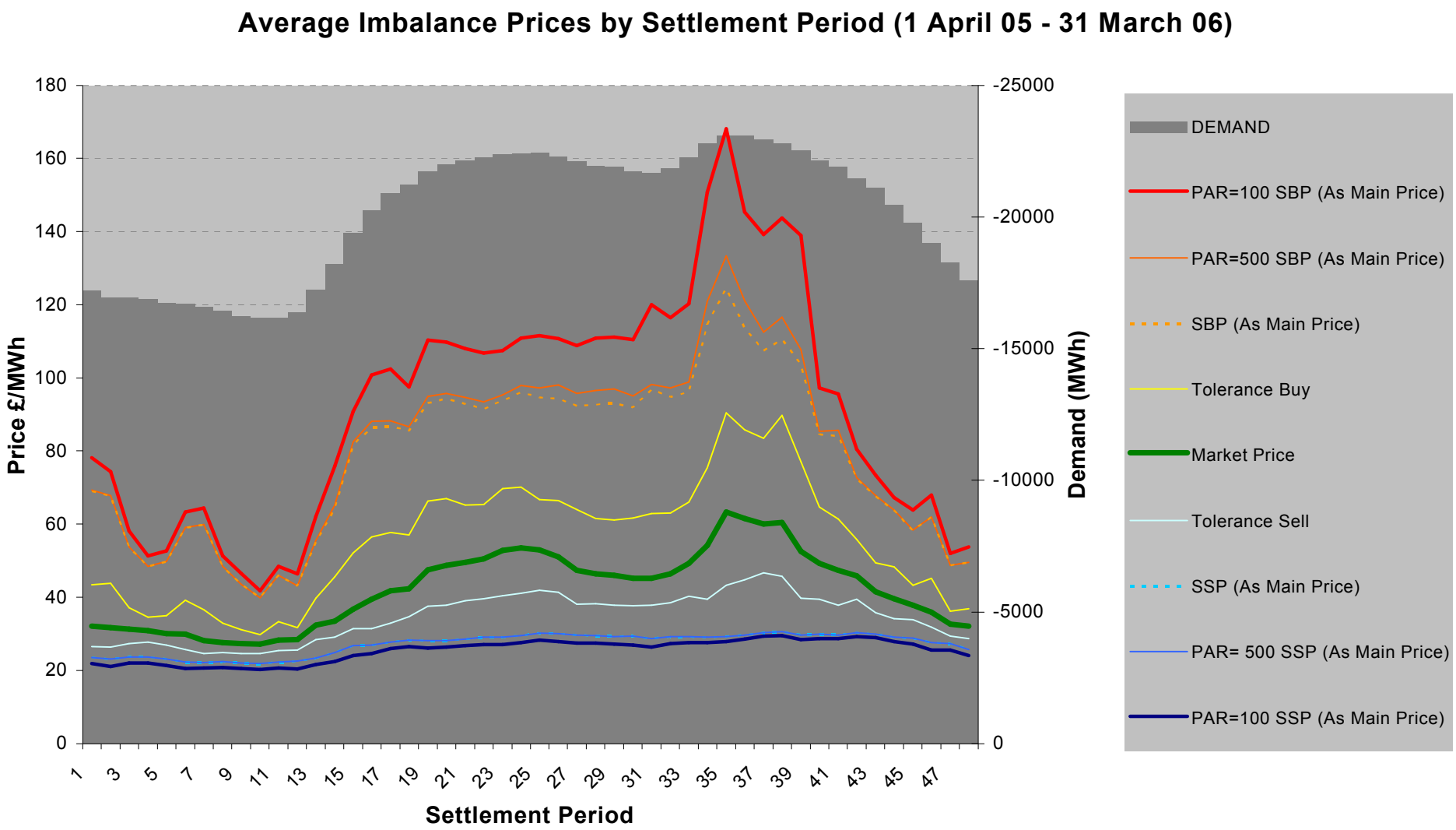
Average Imbalance Prices (05/06)



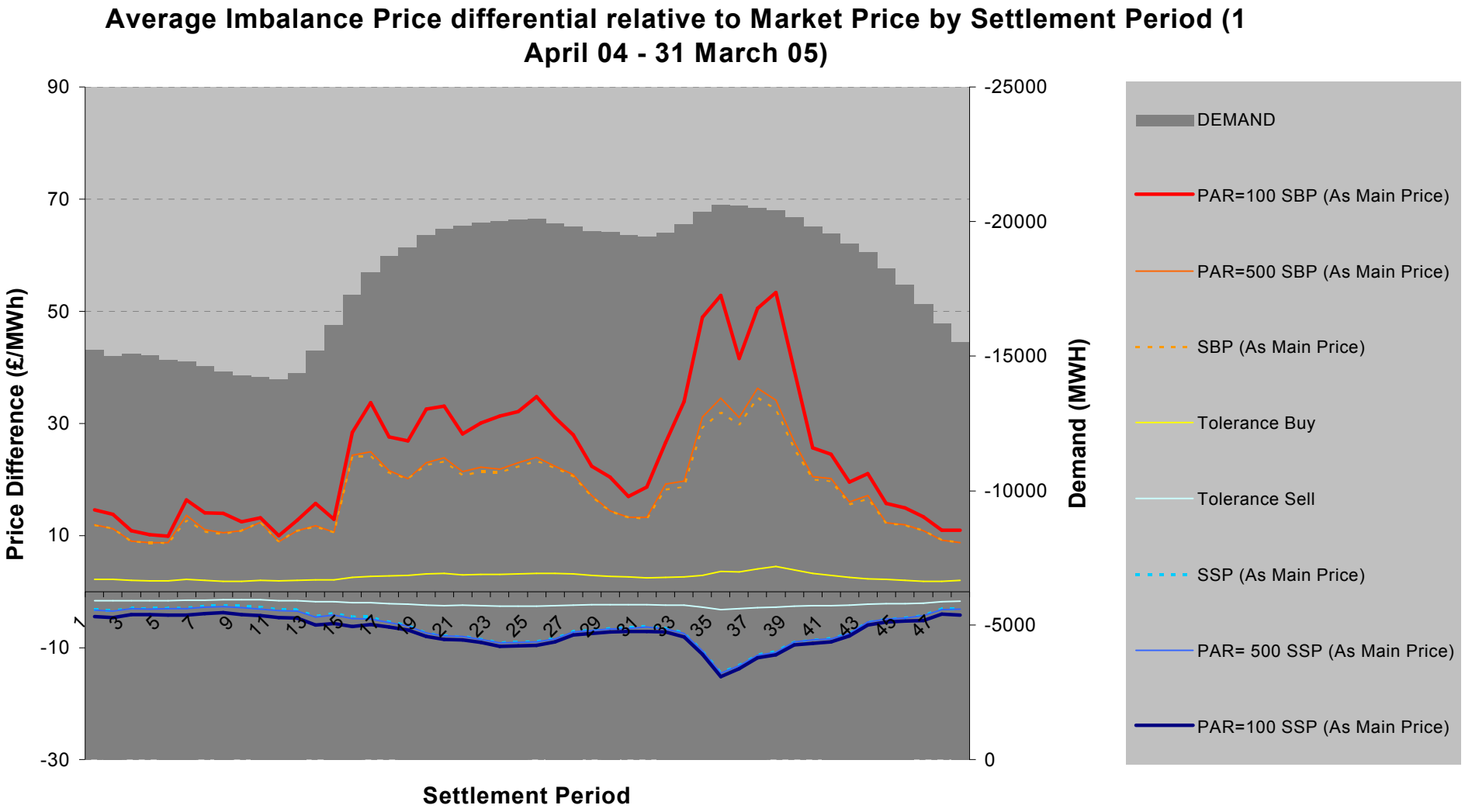
Settlement Period Averages – 04/05



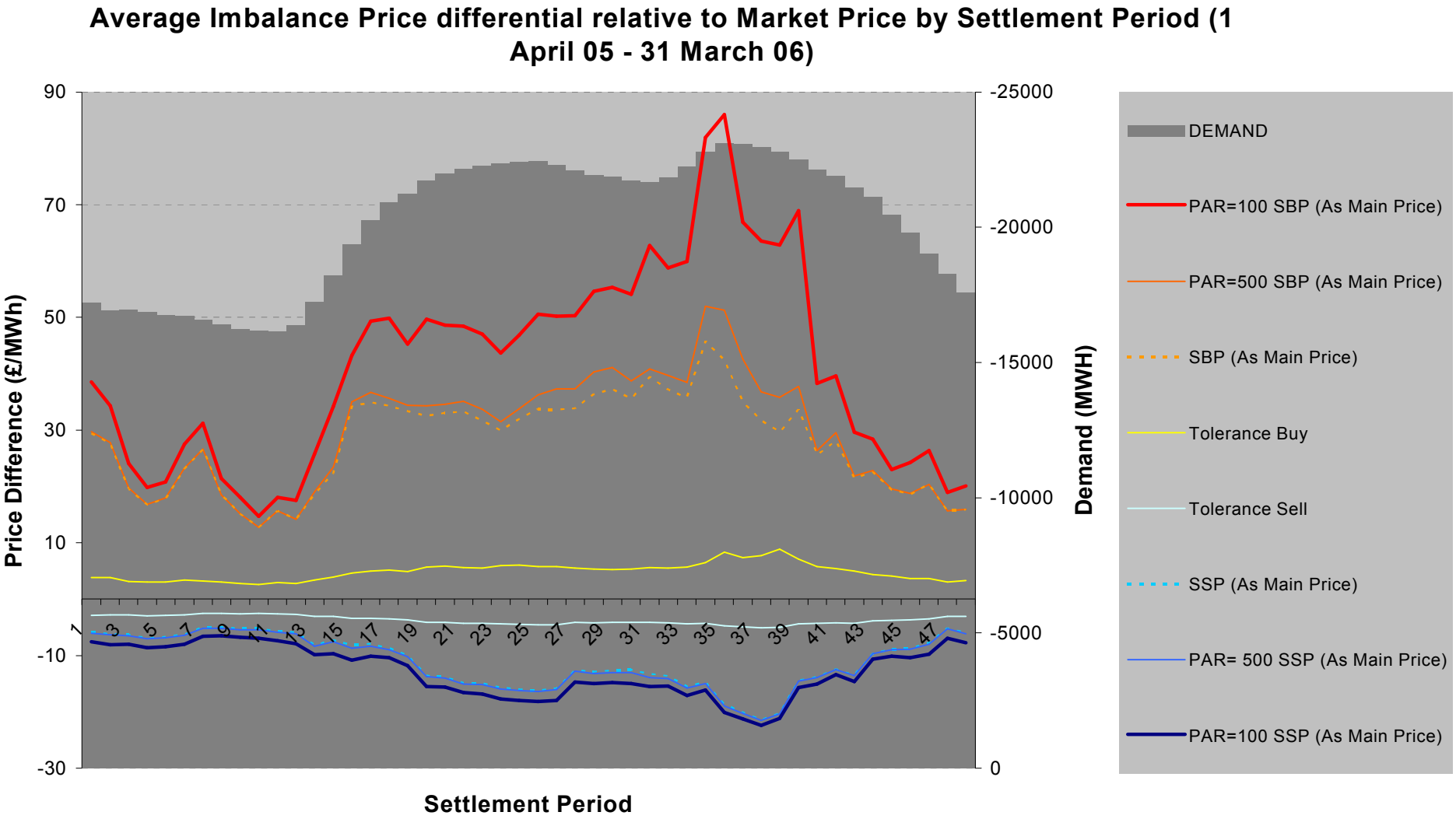
Settlement Period Averages – 05/06



Average Differential to Market Price (04/05)



Average Differential to Market Price (05/06)



Imbalance Price Statistics (04/06)

Averages			
	04/06	04/05	05/06
PAR=100 SBP	42	30	55
PAR=500 SBP	39	28	51
SBP	39	28	50
SSP	27	19	35
PAR= 500 SSP	27	19	34
PAR=100 SSP	**26**	**18**	**33**

Standard Deviation			
	04/06	04/05	05/06
PAR=100 SBP	48	29	58
PAR=500 SBP	36	21	43
SBP	33	20	39
SSP	20	10	23
PAR= 500 SSP	20	10	23
PAR=100 SSP	**20**	**11**	**24**

Extremes			
	04/06	04/05	05/06
PAR=100 SBP	1527	663	1527
PAR=500 SBP	1054	372	1054
SBP	602	350	602
SSP	-21	1	-21
PAR= 500 SSP	-50	-8	-50
PAR=100 SSP	-64	-64	-53

Imbalance Price Statistics (04/06)

	Averages			Difference to Market Price		
	04/06	04/05	05/06	ALL	04/05	05/06
PAR=100 SBP (As Main Price)	82	57	101	38	27	46
PAR=500 SBP (As Main Price)	71	50	87	27	20	32
SBP (As Main Price)	69	49	85	25	19	30
Tolerance Buy	48	33	60	4	3	5
Market Price	33	24	42	0	0	0
Tolerance Sell	27	20	34	-3	-2	-4
SSP (As Main Price)	21	16	27	-8	-6	-11
PAR= 500 SSP (As Main Price)	21	16	27	-8	-6	-11
PAR=100 SSP (As Main Price)	**20**	**15**	**25**	**-9**	**-7**	**-12**

	Extremes			Difference to Market		
	04/06	04/05	05/06	ALL	04/05	05/06
PAR=100 SBP (As Main Price)	1527	663	1527	1356	598	1356
PAR=500 SBP (As Main Price)	1054	372	1054	619	338	619
SBP (As Main Price)	602	350	602	368	294	368
Tolerance Buy	525	233	525	86	21	86
Market Price (MAX)	477	211	477	0	0	0
Market Price (MIN)	9	9	13	0	0	0
Tolerance Sell	8	8	10	-24	-16	-24
SSP (As Main Price)	-21	1	-21	-189	-100	-189
PAR= 500 SSP (As Main Price)	-50	-8	-50	-189	-100	-189
PAR=100 SSP (As Main Price)	-64	-64	-53	-189	-100	-189

Imbalance Price Statistics (04/06)

	Standard Deviation			Difference to Market Price		
	04/06	04/05	05/06	ALL	04/05	05/06
PAR=100 SBP (As Main Price)	81	52	94	60	42	69
PAR=500 SBP (As Main Price)	57	34	65	33	24	39
SBP (As Main Price)	51	32	56	28	22	31
Tolerance Buy	35	18	40	4	2	5
Market Price	21	11	25	0	0	0
Tolerance Sell	14	8	15	2	1	2
SSP (As Main Price)	8	4	8	10	7	12
PAR= 500 SSP (As Main Price)	8	4	8	10	7	12
PAR=100 SSP (As Main Price)	9	4	9	11	7	13