National Grid Reactive Market Report

Ninth Tender Round for Obligatory and Enhanced Reactive Power Services for Contracts Effective from 1st April 2002

Prepared by

Operations & Trading

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Executive Summary

This report describes the 9th tender round evaluation process for reactive market contracts commencing 1st April 2002. It includes the prices and reactive capability data of the successful tenders. The report also includes metered Mvarh utilisation from all eligible service providers for the period 1st October 2001 to 31st March 2002. Estimates of the reactive contribution of the National Grid Transmission System for the same period are also included.

National Grid evaluated all the tenders received against economic purchase and technical performance criteria in accordance with the agreed terms of the market mechanism. On 8th February 2002, tenderers were notified of the results of their respective tenders. The main points are as follows:

- On 30th November 2001 ('Market Day') tenders were received from 76 BM Units representing 34 stations from 17 Generating Companies. All were in respect of the Grid Code Obligatory Reactive Power Service (ORPS) only. No tenders were received from non-BM Unit providers.

- Tenders received were for a duration of 12 or 18 months.

- Tenderers included both portfolio and independent and embedded generating companies.

- 2 BM units(1) were withdrawn from the tender round.

- Of the 74 tenders evaluated, National Grid offered Market Agreements to 32, all of which proceeded to contract.

- As at 1st April 2002 there are a total of 48 BM Units[1] from a possible 155 on Reactive Market Agreements (32 from tender round 9, and 16 from earlier tender rounds).

The next 'Market Day' for receipt of tenders Market Agreements commencing on 1st October 2002, is 31st May 2002. Invitation To Tender (ITT) packs for tender round 10, have been available on the website since 28th March 2002.

BM Units with contracts commencing 1st April 2002 cannot be re-tendered until the 11tth round for contracts, commencing 1st April 2003, at the earliest, in accordance with the 12 month minimum contract duration.

1 For the purposes of this report BM Units refer to Generator BM Units only

Contents

1. Introduction

1.1 This market report provides information and results of the tender evaluation process, and describes the contractual position for the provision of Reactive Power Services to the National Grid Transmission System as at 1st April 2002.

1.2 This report also reviews the outcome of the 9th Reactive Power Market tender round in the context of previous tender rounds and the services delivered to the National Grid Transmission System.

1.3 National Grid manages the voltage of the supergrid system, to meet Transmission Licence requirements for secure and stable power transmission and to ensure quality of supply to customers. Voltages are largely determined by the flows of reactive power on the system. National Grid ensures that reactive power resources are provided on a local basis to meet the constantly varying needs of the system and that there is sufficient reactive power reserve available to meet contingencies.

1.4 Generating Units provide Reactive Power Capability, and have the ability to vary their reactive power output as a requirement of the Grid Code. The power system itself has inherent reactive power gains and losses, which vary in accordance with changes in real power flows and voltage. National Grid installs reactive compensation plant in parts of the system where there is insufficient generator reactive capability to meet requirements, and where voltages cannot be regulated effectively or economically by other means.

1.5 Dynamic reserves of reactive power are essential for system operation. National Grid values reactive capability as it gives rise to increased confidence in the availability of a post-fault service. Although the capability element of the Default Payment Mechanism (DPM) has ceased, National Grid still seeks capability based market agreements to ensure post fault reserves are maintained.

1.6 The 9th tender round has been undertaken to secure such capability based market agreements from 1st April 2002. The service definitions, requirements and contract terms may be found in the Connection & Use of System Code (CUSC), the Grid Code and the ITT (Invitation to Tender Pack).

2. Tender Process

2.1 On 30th November 2001, National Grid held the 9th Reactive Power Market Day. This enabled any potential provider that fulfilled the qualification criteria specified in Schedule 3 of CUSC to tender for a Market Agreement.

2.2 Tenderers may elect to choose the length of their tender from a minimum period of 12 months and thereafter in 6 month increments (e.g 12, 18, 24, 30, 36 months etc.).

2.3 Tenderers submitting tenders for periods greater than 12 months are able to include indexation criteria on the tendered prices.

2.4 Tenderers may tender for either the ORPS and/or the Enhanced Reactive Power Service (ERPS), as defined in CUSC Schedule 3.

2.5 National Grid welcomes longer-term tenders and tenders offering ERPS. However the value of such contracts may change from year to year as system reactive needs evolve.

2.6 Potential tenderers comprise of the following:

- Generators required to provide the minimum Grid Code ORPS and already in receipt of the default payment arrangements, wishing to tender alternative payment terms for ORPS.

- Generators that have a reactive capability in excess of that which it is obliged to provide as the ORPS, known as the "Grid Code Plus Enhanced Reactive Power Service".

- Any other eligible Service Provider able to offer other plant or apparatus which can generate or absorb reactive power, known as ERPS. The only requirement is that these Service Providers must fulfil the market qualification criteria and be capable of making their capability available for use by National Grid[2].

3. Tenders Submitted

2 In the first instance any such provider interested in offering such a service should contact National Grid before submitting a tender

3.1 A total of 76 discrete tender submissions were received, representing 17 generating companies and 34 power stations. All tenders were from BM Unit providers offering the Grid Code ORPS service only, with contract duration of 12 or 18 months.

3.2 Tenders were received from both portfolio and independent generating companies, and embedded generators. No tenders were received from non-BM providers.

3.3 Of the tenders received, the majority sought reactive capability biased payments in addition to utilisation payments.

3.4 All tenders were compliant with the submission criteria specified in CUSC Schedule 3.

4. Tender Assessment

4.1 Tender assessment was carried out in accordance with evaluation criteria specified in Appendix 6 of CUSC Schedule 3. Details of this are more fully described in Appendix 6 of this report.

4.2 This assessment included input from the Reactive Power Capability Index, as published in the ITT Pack. The purpose of this index is to provide an indication of the reactive requirement from Generators in each of the zones defined (ITT pack, Appendix B). These requirements are based on the historic need for Reactive Power in the zones and any planned changes to National Grid's Transmission System (or the generation and demand connected to it), that are likely to affect the zonal reactive requirement.

4.3 Tenders were assessed via a process, which considers the following:

- economics (i.e cost of market compared with default),
- the intrinsic capability value of the tendered reactive capability (against the alternative of NGC reactive assets);
- a number of other criteria, for example how competitive the utilisation price is, and what incentive the tender gives the Generator to maintain their reactive capability.

Please refer to CUSC Schedule 3, Appendix 6 for the qualification and evaluation criteria.

5. Tender Observations

5.1 A number of tenders were seeking capability worth. Some generators had made incremental changes in the balance between capability and utilisation prices in the light of their experience from previous rounds. Some had completely restructured their tenders changing the balance between capability and utilisation charges.

5.2 A feature of this tender round was the increased use of combinations of available and synchronised capability prices.

5.3 This tender round, as with previous ones, has taken into account our views on expected utilisation of generating plant in the energy market. Some tenderers who had submitted identical tenders to tender round 7 have therefore not been accepted in tender round 9.

5.5 A number of tenderers appeared to be exploring price sensitivities across BM units (within a station).

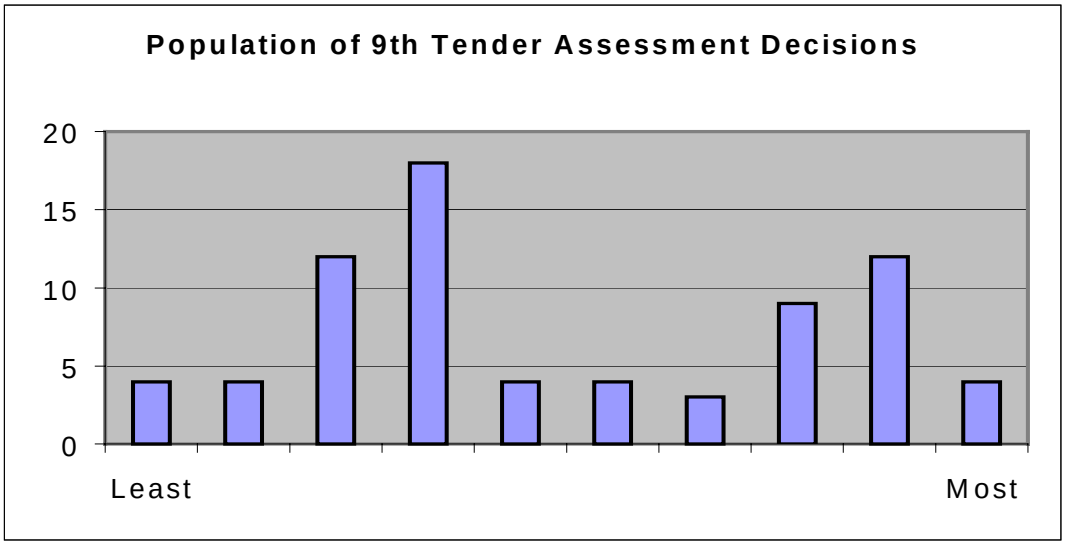
6. Assessment Results

6.1 Of the 74 tenders evaluated, National Grid offered Market Agreements to 32, all of which proceeded to contract.

6.2.1 This acceptance rate of 32 out of 74 (2 BM units withdrew from the original count of 76 tenders received) represents 43%. This acceptance rate is consistent with our acceptance rates of 40-50% in tender rounds 7 and 8.

6.3 The range of assessment outcome is shown in figure 1 below. A number of tenders were unattractive, in that they sought capability payments significantly above expectations of default payments and National Grid's value of capability.

Figure 1



6.4 A complete list of all generator BM Units for 2002/2003 is given in Appendix 2. This list also records those BM Units that have signed market agreements. Whether or not they will be in a position to tender in round 10 depends upon their existing contractual status. Appendix 3 provides a definitive list of Market Agreements applicable from 1st April 2002, with Appendix 7 illustrating the geographic distribution of market and default agreements. Details of the successful tenders submitted for contracts commencing 1st April 2002 are listed in Appendix 4.

7. Comparisons with previous Tender Rounds

7.1 Figure 2 below shows the percentage participation of eligible BM units for all tender rounds since the commencement of the Reactive Power Market.

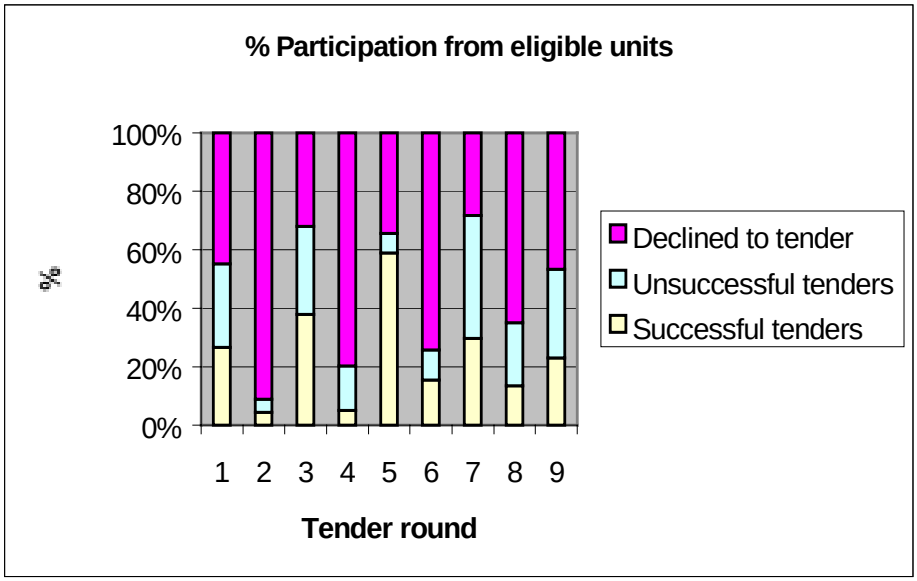


Figure 2 (Source: Appendix 1)

7.2 Figure 3 shows the % participation of eligible units for comparable tender rounds. Tender round 9 is comparable with tender rounds one, three, five and seven, as all occur at the start of the financial year.

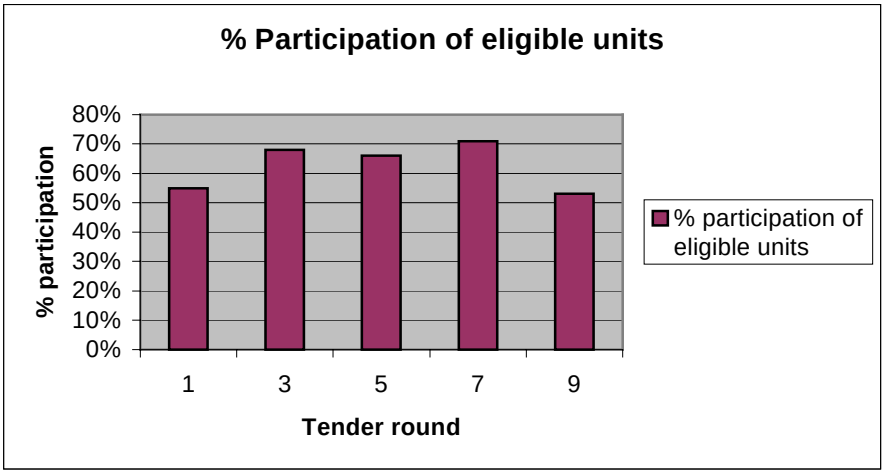


Figure 3 (Source: Appendix 1)

7.3 The success rate of eligible participants in tender round 9 is slightly higher than the previous comparable tender round but since the commencement of the Reactive Power Market indicates a downward trend in acceptance rates.

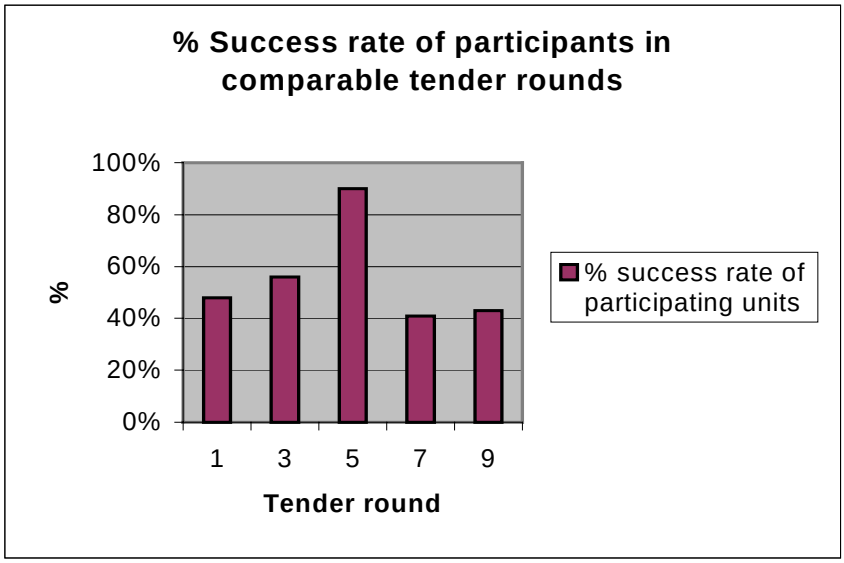


Figure 4 (Source: Appendix 1)

7.4 From 1st April 2002 there are a total of 48 BM Units on a reactive Market Agreement, 1 from tender round 5, 15 from tender round 8 and 32 from this tender. This information is shown in figure 5 in percentage terms.

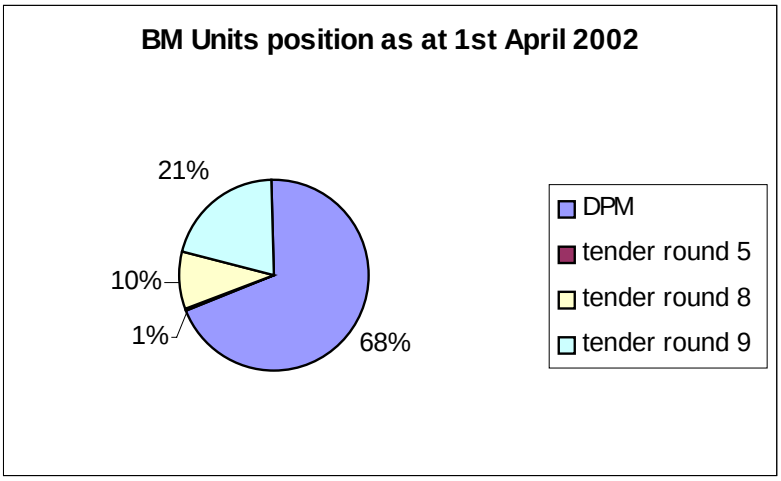


Figure 5 (Source: Appendix 2)

7.5 Figure shows the percentage of BM Units on a Market Agreement as at 1st April 2002 on a region basis.

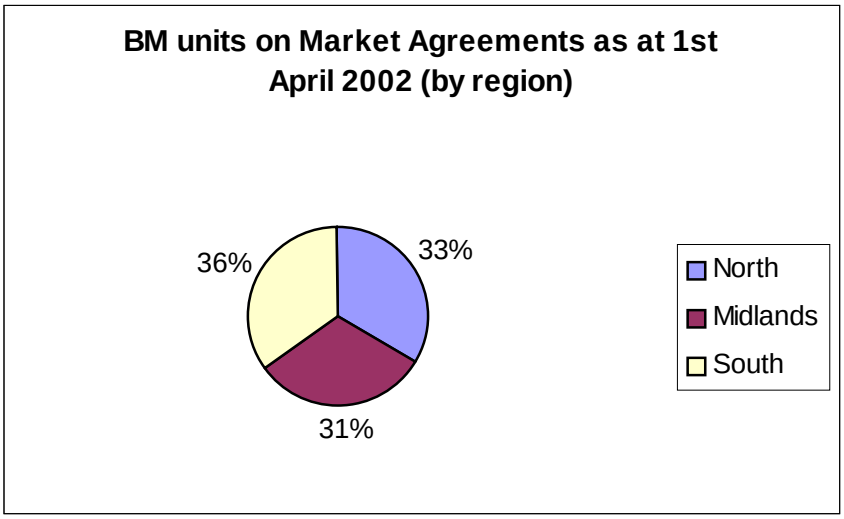


Figure 6 (Source: Appendix 2)

7.6 Figure 7 shows the % of total available lagging capability that has been contracted with, via Market Agreements since the commencement of the Reactive Power Market.

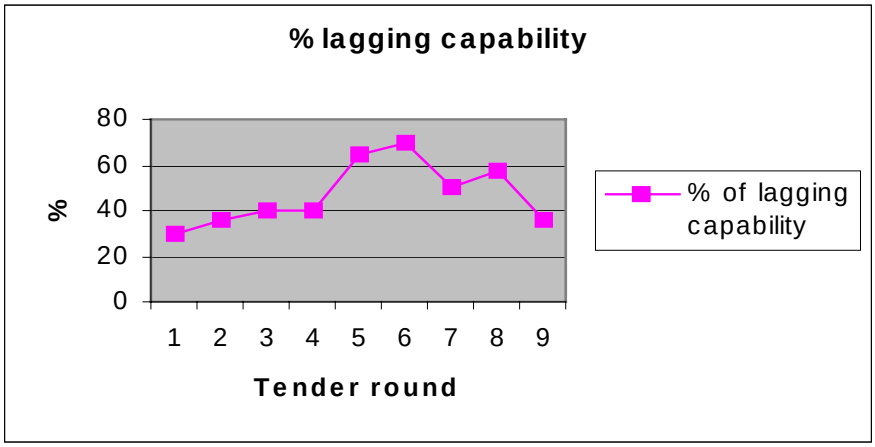


Figure 7 (Source: Appendix 1)

8. Generating Unit Reactive Mvarh Utilisation

8.1 This section summarises a six-month breakdown of reactive metered genset utilisation for the period 1st October 2001 to 31st March 2002.

8.2 Table 1 shows the Mvarh utilisation volumes (lead plus lag) for all eligible BM Units on a monthly basis. A breakdown by individual genset for the period October 2001 to March 2002 is provided in Appendix 5.

Utilisation Volume (Mvarh)

Month	Market Agreements	DPM	Total = Market Agreements + DPM
Oct-01	1,238,665	868,253	2,106,918
Nov-01	1,678,732	1,055.528	2,734,261
Dec-01	1,442,445	1,054,850	2,497,295
Jan-02	1,743,524	1,067,373	2,810,898
Feb-02	1,450,053	787,475	2,237,528
Mar-02	1,244,238	810,304	2,054,542
Total	**8,797,658**	**5,643,784**	**14,441,441**

Table 1 - Summary of Generator Reactive utilisation Oct 01 – Mar 02

8.3 Table 2 shows six monthly utilisation totals since 1996, sorted by the Seven Year Statement defined regions - North, Midland and South.

8.4 The volumes set out in table 2 refer to all BM Units eligible for a reactive utilisation payment. Mvarh lag and Mvarh lead are calculated according to the aggregation methodology described within Appendix 2 of CUSC Schedule 3 and also within the companion document "Methodology Document for the Aggregation of Reactive Power Metering" by which reactive utilisation payments are made.

	NORTH		MIDLANDS		SOUTH		TOTAL		
	lead	**lag**	**lead**	**lag**	**Lead**	**lag**	**lead**	**Lag**	**| lead + lag |**
Apr 96 - Sep 96	2.86	9.79	0.37	1.94	1.49	2.29	4.72	14.02	18.74
Oct 96 - Mar 97	2.72	12.71	0.36	3.07	1.74	2.72	4.82	18.50	23.32
Apr 97 - Sep 97	2.89	8.65	0.41	1.60	1.87	1.77	5.17	12.02	17.19
Oct 97 - Mar 98	2.78	10.67	0.31	3.07	1.54	2.01	4.63	15.75	20.38
Apr 98 - Sep 98	1.96	7.68	0.44	2.02	1.85	1.51	4.25	11.20	15.45
Oct 98 - Mar 99	1.71	9.54	0.36	2.07	1.65	1.66	3.76	13.48	17.24
Apr 99 - Sep 99	1.77	7.25	0.37	1.52	1.27	1.40	3.40	10.20	13.60
Oct 99 – Mar 00	1.98	10.45	0.27	2.13	1.35	2.19	3.60	14.77	18.37
Apr 00 – Sep 00	1.44	6.31	0.48	1.69	1.59	1.32	3.51	9.32	12.83
Oct 00 – Mar 01	1.52	7.40	0.40	2.72	1.48	1.73	3.40	11.85	15.25
Apr 01 – Sept 01	1.80	4.59	0.50	1.76	1.94	1.18	4.24	7.53	11.77
Oct 01 - Mar 02	1.70	5.79	0.58	3.07	1.50	1.78	3.79	10.65	14.44

Table 2 – Generator Reactive Utilisation (Tvarh) by region

8.5 The reduction over the last 5 years in real power flows across the system has resulted in a reduction in reactive losses on the supergrid and hence the reactive utilisation required from generation.

9. Estimates of National Grid System Reactive Utilisation October 2001 to March 2002

9.1 National Grid is required by CUSC Schedule 3 to 'use all reasonable endeavours' to provide estimates of the Mvarh absorption and generation by the National Grid transmission system for the six-month period ending 31st March 2002.

9.2 This has been approached in two stages:

- The net reactive utilisation (Tvarh) of the National Grid system has been derived from the difference between the reactive output of generating units and the reactive demand at Grid Supply Points (GSPs). This is given in Table 3 where the accuracy of the data is consistent with the underlying meter readings.

- The net Tvarh described above has been broken down by National Grid system component and is shown in Table 4. It should be noted that this information is based on estimates and operational records only.

9.3 The simple reactive balance found in Table 3 can be described by the equation:

|Generation Net Tvarh| = |Net Reactive Demand at GSPs Tvarh| - |Net NGC System Tvarh|

For example, for October 2001, (1.49 - 0.61 = 6.17 - 5.29). From Table 3 it can be seen that the Tvarh contribution from generation is small compared with the other components of the equation.

9.4 The generation figures are a national monthly summation of the Settlements figures given in Appendix 5. At this stage, the data in Table 3 may be subject to amendment, via accruals or any outstanding disputes.

9.5 The 'net reactive demand at GSP' figures have been derived from operational records. The figure shown is net, i.e. lagging demand minus leading demand, and in this case is lagging in each month. This figure represents the net effect of the consumer demand plus the LV losses minus the LV gain.

Component (Tvarh)	Oct - 01	Nov-01	Dec-01	Jan - 02	Feb -02	Mar - 02	6 monthly Total

Generation Lead	-0.61	-0.63	-0.75	-0.64	-0.54	-0.61	-3.80
Generation Lag	1.49	2.10	1.74	2.17	1.70	1.44	10.65
Net Reactive Demand at GSPs	6.17	6.26	5.53	6.46	5.19	5.59	35.20
Net National Grid System	5.29	4.79	4.54	4.93	4.03	4.76	28.34

Table 3 - Net National Grid System Effect

9.6 The more detailed breakdown found in Table 3 can be described by the following equation:

- Generation Net Tvarh = Net Reactive Demand at GSPs - HV network shunt gain (BV^2) + HV network series loss (I^2X) + SGT series loss (I^2X_t) - Shunt capacitor gain - net SVC output+ Shunt reactor loss.

9.7 The figures in Table 4 are estimates and provide an indication of the likely national reactive energy balance within the system.

Points to note when considering Table 4 include:

- HV gain varies due to circuit switching, outages and system operating voltage
- HV losses are driven by active power flows across the system
- Supergrid transformer series reactive losses are predominantly driven by local distribution company demand
- Switching of MSCs (Mechanically Switched Capacitors), SVCs (Static Var Compensator) and shunt reactors is determined by operational security requirements.

Component (Tvarh)	Oct - 01	Nov - 01	Dec - 01	Jan - 02	Feb - 02	Mar - 02	6 month total
MSC	1.96	2.11	0.90	2.53	2.24	2.13	11.87
Shunt Reactor	-1.71	-1.47	-1.81	-1.49	-1.48	-1.76	-9.72
SVC generation	0.17	0.17	0.13	0.17	0.16	0.15	0.95
SVC absorption	-0.13	-0.11	-0.12	-0.10	-0.10	-0.15	-0.53
HV network shunt gain	9.27	9.10	9.61	9.6	7.66	9.32	54.56
HV network series losses	-2.35	-2.87	-2.89	-3.3	-2.50	-2.79	-14.68
SGT series losses	-1.91	-2.14	-2.26	-2.48	-1.94	-2.15	-12.88
Net NGC System Utilisation	5.29	4.79	4.54	4.93	4.03	4.76	28.34
Generation Lead	-0.61	-0.63	-0.75	-0.64	-0.54	-0.61	-3.80
Generation Lag	1.49	2.10	1.74	2.17	1.70	1.44	10.65
Net Demand at GSPs	6.17	6.26	5.53	6.46	5.19	5.59	35.20

Table 4 - Indicative breakdown of Net National Grid System Effect

10. Exceptional Reactive Power Requirements

10.1 CUSC Schedule 3, paragraph 5 (Statutory and Regulatory Obligations) enables National Grid to contract outside of the Reactive Power Market tender process in specific circumstances for the provision of exceptional reactive power services. National Grid is required to publish details of circumstances surrounding this in the preceding six month period. During the period 1st October 2001 – 31st March 2002 no such services were required by National Grid for the provision of voltage support.

Appendices

Appendix 1 - Comparisons with previous Tender Rounds

The table below provides a summary of the nine tender rounds to date.

Tender Round	Eligible Units able to tender	No. of BM/Non BM Unit tenders Received	ORPS	ORPS + ERPS	12 month duration	>12 months duration	Successful Gensets Offered market agreements	Successful Gensets signing market agreements	% total Mvar lagging capability with market agreements
1	154	85	76	9	85	0	41	41	~30%
2	113	10	10	0	9	1	5	5	~36%
3	150	102	102	0	102	0	75	57	~40%
4	99	20	20	0	14	6	5	5	~40%
5	151	99	98	1	97	2	98	89	~65%
6	58	15	15	0	15	0	9	9	~70%
7	145	104	104	0	104	0	43	43	~50%
8	111	39	39	0	39	0	17	15	~57%
9	138	76	76	0	68	8	32	32	~35%

Appendix 2 - BM Units position at 1st April 2002

North

	Genset	Contract		Genset	Contract		Genset	Contract
1	BRGG_01Z	Market 9	26	DRAXX12G	DPM	51	HMRPS04Z	DPM
2	CDCL_01Z	Market 9	27	EGGPS01Z	DPM	52	HMRPS05Z	Market 9
3	CNQPS01Z	DPM	28	EGGPS02Z	DPM	53	HRTL_01Z	DPM
4	CNQPS02Z	DPM	29	EGGPS03Z	DPM	54	HRTL_02Z	DPM
5	CNQPS03Z	DPM	30	EGGPS04Z	DPM	55	KEAD_01Z	Market 9
6	CNQPS04Z	DPM	31	FELL_01Z	DPM	56	KILNS01Z	Market 9
7	COTT_01Z	DPM	32	FERR_01Z	DPM	57	KILLP01Z	Market 9
8	COTT_02Z	DPM	33	FERR_02Z	DPM	58	KILLP02Z	Market 8
9	COTT_03Z	DPM	34	FERR_03Z	DPM	59	ROCK_01Z	DPM
10	COTT_04Z	DPM	35	FERR_04Z	DPM	60	ROOS_01Z	Market 8
11	DEEP_01Z	Market 8	36	FFES_01Z	DPM	61	SCCL_01Z	DPM
12	DINO_01Z	DPM	37	FFES_02Z	DPM	62	SCCL_02Z	DPM
13	DINO_02Z	DPM	38	FFES_03Z	DPM	63	SCCL_03Z	DPM
14	DINO_03Z	DPM	39	FFES_04Z	DPM	64	SHBA_01Z	DPM
15	DINO_04Z	DPM	40	FIDL_01Z	DPM	65	SHBA_02Z	DPM
16	DINO_05Z	DPM	41	FIDL_02Z	DPM	66	TESI_01Z	DPM
17	DINO_06Z	DPM	42	FIDL_03Z	DPM	67	TESI_02Z	DPM
18	DRAXX01Z	DPM	43	FIDL_04Z	DPM	68	WBUPS01Z	Market 8
19	DRAXX02Z	DPM	44	HEYM101Z	DPM	69	WBUPS02Z	Market 8
20	DRAXX03Z	DPM	45	HEYM102Z	DPM	70	WBUPS03Z	Market 8
21	DRAXX04Z	DPM	46	HEYM207Z	DPM	71	WBUPS04Z	Market 8
22	DRAXX05Z	DPM	47	HEYM208Z	DPM	72	WYLF_01Z	DPM
23	DRAXX06Z	DPM	48	HMRPS01Z	Market 9	73	WYLF_02Z	DPM
24	DRAXX09G	DPM	49	HMRPS02Z	Market 9	74	WYLF_03Z	DPM
25	DRAXX10G	DPM	50	HMRPS03Z	Market 9	75	WYLF_04Z	DPM

Midlands

	Genset	**Contract**		**Genset**	**Contract**		**Genset**	**Contract**
76	CORB_01Z	Market 5	84	KLYNA01Z	Market 8	92	RUGPS07Z	Market 8
77	DERW_01Z	DPM	85	LBAR_01Z	Market 8	93	RUGPS06G	DPM
78	DRKPS09Z	Market 9	86	PETEM01Z	Market 8	94	RUGPS07G	DPM
79	DRKPS10Z	Market 9	87	RATS_01Z	Market 9	95	SIZB_01Z	DPM
80	DRKPS12Z	DPM	88	RATS_02Z	Market 9	96	SIZB_02Z	DPM
81	GYAR_01Z	DPM	89	RATS_03Z	Market 9	97	SIZEA01Z	DPM
82	IRNPS01Z	Market 9	90	RATS_04Z	Market 9	98	SIZEA02Z	DPM
83	IRNPS02Z	Market 9	91	RUGPS06Z	Market 8	99	SUTB_01Z	Market 9

South

	Genset	Contract		Genset	Contract		Genset	Contract
100	ABTHB07Z	DPM	119	DIDC_04G	DPM	138	KINO_03Z	DPM
101	ABTHB08Z	DPM	120	DNGB_21Z	Market 9	139	KINO_04Z	DPM
102	ABTHB09Z	DPM	121	DNGB_22Z	Market 9	140	LITTD01G	DPM
103	AESB_01Z	DPM	122	DUNGA01Z	DPM	141	LITTD02G	DPM
104	BARK_02Z	DPM	123	DUNGA02Z	DPM	142	LITTD01Z	Market 8
105	BARK_11Z	DPM	124	DUNGA03Z	DPM	143	LITTD02Z	DPM
106	COSO_01Z	DPM	125	DUNGA04Z	DPM	144	MEDP_01Z	DPM
107	COWE_01Z	DPM	126	EECL_01Z	DPM	145	OLDS_01Z	DPM
108	COWE_02Z	DPM	127	FAWL_03Z	Market 9	146	OLDS_02Z	DPM
109	DAMC_01Z	Market 9	128	FAWN_01Z	DPM	147	RYHPS01Z	Market 9
110	DIDC_01Z	Market 8	129	FIFO_13Z	Market 9	148	SEAB_01Z	DPM
111	DIDC_02Z	DPM	130	FIFO_14Z	Market 9	149	SEAB_02Z	DPM
112	DIDC_03Z	DPM	131	FIFO_15Z	Market 9	150	SHOS_01Z	DPM
113	DIDC_04Z	Market 8	132	GRAI_01Z	Market 9	151	TAYL_02Z	Market 9
114	DIDCB05Z	Market 9	133	GRAI_04Z	Market 9	152	TAYL_03Z	Market 9
115	DIDCB06Z	Market 9	134	HINB_07Z	DPM	153	TILBB08Z	DPM
116	DIDC_01G	DPM	135	HINB_08Z	DPM	154	TILBB09Z	DPM
117	DIDC_02G	DPM	136	KINO_01Z	DPM	155	TILBB10Z	DPM
118	DIDC_03G	DPM	137	KINO_02Z	DPM			

Notes :

Market 5 refers to those contracts commencing 1st April 2000
Market 8 refers to those contracts commencing 1st October 2001
Market 9 refers to those contracts commencing 1st April 2002
Eligible BM Units are those of reactive capability, leading or lagging greater than 15 Mvar at the commercial boundary, and the further stipulations stated in CUSC Schedule 3. There are to date, no market contracts for Enhanced Capability.

Appendix 3 - Reactive Market Agreement status at 1st April 2002

Contracts Continuing on 1st April 2002			
	Company	**Genset ID**	**Contract Expiry Date**
1	Corby	CORB_01Z	31/03/03
2	Deeside Power Development Company	DEEP_01Z	30/09/02
3	Innogy plc	DIDC_01Z	30/09/02
4	Innogy plc	DIDC_04Z	30/09/02
5	Innogy plc	LBAR_01Z	30/09/02
6	Innogy plc	LITTD01Z	30/09/02
7	Powergen UK plc	KILLP02Z	30/09/02
8	Anglian Power	KLYNA01Z	30/09/02
9	Peterborough Power Ltd	PETEM01Z	30/09/02
10	Lakeland Power ltd	ROOS_1Z	30/09/02
11	Rugeley Power Ltd	RUGPS06Z	30/09/02
12	Rugeley Power Ltd	RUGPS07Z	30/09/02
13	TXU Europe West Burton Ltd	WBUPS01Z	30/09/02
14	TXU Europe West Burton Ltd	WBUPS02Z	30/09/02
15	TXU Europe West Burton Ltd	WBUPS03Z	30/09/02
16	TXU Europe West Burton Ltd	WBUPS04Z	30/09/02

New Contracts Commencing on 1st April 2002			
	Company	**Genset ID**	**Contract Expiry Date**
1	AES Fifoots Point Ltd	FIFO-13	31/03/03
2	AES Fifoots Point Ltd	FIFO-14	31/03/03
3	AES Fifoots Point Ltd	FIFO-15	31/03/03
4	British Energy	DNGB_21Z	31/03/03
5	British Energy	DNGB_22Z	31/03/03
6	Cottam Development Centre Ltd	CDCL-1	31/03/03
7	Damhead Creek Ltd	DAMC_01Z	31/03/03
8	Innogy plc	DIDCB05Z	31/03/03
9	Innogy plc	DIDCB06Z	31/03/03
10	Innogy plc	FAWL_03Z	31/03/03
11	Keadby Generation Ltd	KEAD_01Z	31/03/03
12	Killingholme Power Ltd	KILNS01Z	31/03/03
13	PowerGen UK plc	GRAI_01Z	30/09/03
14	PowerGen UK plc	GRAI_04Z	31/03/03
15	PowerGen UK plc	KILPS01Z	31/03/03
16	PowerGen UK plc	RATS_01Z	31/03/03
17	PowerGen UK plc	RATS_02Z	31/03/03
18	PowerGen UK plc	RATS_03Z	30/09/03
19	PowerGen UK plc	RATS_04Z	30/09/03
20	PowerGen UK plc	TAYL_02Z	30/09/03
21	PowerGen UK plc	TAYL_03Z	31/03/03
22	Regional Power Generators Ltd	BRGG_01Z	31/03/03
23	Scottish Power plc	RYEH_01Z	31/03/03
24	Sutton Bridge Power	SUTB_01Z	31/03/03
25	TXU Europe Drakelow Ltd	DRKPS09Z	31/03/03
26	TXU Europe Drakelow Ltd	DRKPS10Z	31/03/03
27	TXU Europe High Marnham Ltd	HMRPS01Z	31/03/03
28	TXU Europe High Marnham Ltd	HMRPS02Z	31/03/03
29	TXU Europe High Marnham Ltd	HMRPS03Z	31/03/03
30	TXU Europe High Marnham Ltd	HMRPS05Z	31/03/03
31	TXU Europe Ironbridge Ltd	IRNPS01Z	31/03/03
32	TXU Europe Ironbridge Ltd	IRNPS02Z	31/03/03

Appendix 4 - Successful tender details for contracts commencing 1st April 2002

Company Name: AES Fifoots Point Ltd			Station Name: Fifoots Point			
Genset ID: FIFO_13Z			Contract Period: 12 months			
Nominated GRC: 121 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	67	53	37	18	36	54
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.16	0.13	0.05	0.05	0.16	0.42
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.80	0.52	0.40	0.35	0.48	1.8

Company Name: AES Fifoots Point Ltd			Station Name: Fifoots Point			
Genset ID: FIFO_14Z			Contract Period: 12 months			
Nominated GRC: 121 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	67	53	37	18	36	54
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.16	0.13	0.05	0.05	0.16	0.42
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.80	0.52	0.40	0.35	0.48	1.8

Company Name: AES Fifoots Point Ltd			Station Name: Fifoots Point			
Genset ID: FIFO_15Z			Contract Period: 12 months			
Nominated GRC: 121 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	67	53	37	18	36	54
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.16	0.13	0.05	0.05	0.16	0.42
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.80	0.52	0.40	0.35	0.48	1.8

Company Name: British Energy			Station Name: Dungeness			
Genset ID: DNGB_21			Contract Period: 12 months			
Nominated GRC: 484 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	291	150	50	75	200	368
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.021	0.012	0.010	0.028	0.054	0.082
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.200	0.750	0.750	0.750	0.750	2.200

Company Name: British Energy			Station Name: Dungeness			
Genset ID: DNGB_22			Contract Period: 12 months			
Nominated GRC: 484 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	291	150	50	75	200	368
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.021	0.012	0.010	0.028	0.054	0.082
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.200	0.750	0.750	0.750	0.750	2.200

Company Name: Cottam Development Centre Ltd			Station Name: Cottam			
Genset ID: CDCL-1			Contract Period: 12 months			
Nominated GRC: 400 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	188	140	48	48	150	185
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.027	0.026	0.025	0.025	0.026	0.027
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.102	00101	0.100	0.100	0.101	0.102
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.305	0.304	0.304	0.305	2.000

Company Name: Damhead Creek Ltd			Station Name: Damhead Creek			
Genset ID: DAMC_01Z			Contract Period: 12 months			
Nominated GRC: 794 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	377	200	50	100	200	362
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.13	0.065	0.025	0.025	0.035	0.14
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.75	0.40	0.39	0.39	0.40	1.70

Company Name: Innogy plc			Station Name: Didcot			
Genset ID: DIDCB05Z			Contract Period: 12 months			
Nominated GRC: 680 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	305	175	50	100	200	275
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.044	0.022	0.011	0.043	0.064	0.174
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.060	0.030	0.015	0.025	0.040	0.065
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.800	1.000	0.460	0.460	1.000	1.800

Company Name: Innogy plc			Station Name: Didcot			
Genset ID: DIDCB06Z			Contract Period: 12 months			
Nominated GRC: 690 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	307	175	50	100	200	262
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.044	0.022	0.011	0.043	0.064	0.174
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.060	0.030	0.015	0.025	0.040	0.065
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.800	1.000	0.460	0.460	1.000	1.800

Company Name: Innogy plc			Station Name: Fawley			
Genset ID: FAWL_03Z			Contract Period: 12 months			
Nominated GRC: 484 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	154	100	50	75	154	204
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.100	0.003	0.001	0.001	0.003	0.060
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	1.000	0.400	0.240	0.240	0.400	1.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.800	0.953	0.450	0.450	0.953	1.800

Company Name: Keadby Generation Ltd			Station Name: Keadby			
Genset ID: KEAD_01Z			Contract Period: 12 months			
Nominated GRC: 715 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	349	310	50	100	300	323
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.08	0.05	0.03	0.137	0.263	0.578
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.935	0.44	0.275	0.153	0.473	0.998

Company Name: Killinghome Power Ltd			Station Name: Killingholme			
Genset ID: KILNS01Z			Contract Period: 12 months			
Nominated GRC: 665 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	305	150	50	50	200	314
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.09	0.08	0.05	0.05	0.08	0.09
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.50	0.60	0.30	0.30	0.60	1.50

Company Name: Powergen UK plc			Station Name: Grain			
Genset ID: GRAI_01Z			Contract Period: 18 months			
Nominated GRC: 675 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	255	200	48	98	205	239
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.004	0.003	0.002	0.002	0.003	0.004
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.082	0.081	0.080	0.080	0.081	0.082
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.250	0.245	0.245	0.250	2.000

Company Name: Powergen UK plc			Station Name: Grain			
Genset ID: GRAI_04Z			Contract Period: 12 months			
Nominated GRC: MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	255	200	48	98	205	239
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.004	0.003	0.002	0.002	0.003	0.004
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.082	0.081	0.080	0.080	0.081	0.082
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.250	0.245	0.245	0.250	2.000

Company Name: Powergen UK plc			Station Name: Killingholme			
Genset ID: KILPS01Z			Contract Period: 12 months			
Nominated GRC: 450 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	223	190	48	73	180	211
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.022	0.021	0.020	0.020	0.021	0.022
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.075	0.074	0.073	0.073	0.074	0.075
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.406	0.405	0.405	0.406	2.000

Company Name: Powergen UK plc			Station Name: Ratcliffe			
Genset ID: RATS_01Z			Contract Period: 12 months			
Nominated GRC: 500 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	147	110	48	73	140	170
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.044	0.043	0.042	0.042	0.043	0.044
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.026	0.025	0.024	0.024	0.025	0.026
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.406	0.405	0.405	0.406	2.000

Company Name: Powergen UK plc			Station Name: Ratcliffe			
Genset ID: RATS_02Z			Contract Period: 12 months			
Nominated GRC: 500 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	128	90	48	73	160	193
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.042	0.041	0.040	0.040	0.041	0.042
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.024	0.023	0.022	0.022	0.023	0.024
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.406	0.405	0.405	0.406	2.000

Company Name: Powergen UK plc			Station Name: Ratcliffe			
Genset ID: RATS_03Z			Contract Period: 18 months			
Nominated GRC: 500 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	128	90	48	73	160	193
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.042	0.041	0.040	0.040	0.041	0.042
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.031	0.030	0.029	0.029	0.030	0.031
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.406	0.405	0.405	0.406	2.000

Company Name: Powergen UK plc			Station Name: Ratcliffe			
Genset ID: RATS_04Z			Contract Period: 18 months			
Nominated GRC: 500 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	79	65	48	73	145	178
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.017	0.016	0.015	0.015	0.016	0.017
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.020	0.019	0.018	0.018	0.019	0.020
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.406	0.405	0.405	0.406	2.000

Company Name: Powergen UK plc			Station Name: Taylors Lane			
Genset ID: TAYL_02Z			Contract Period: 18 months			
Nominated GRC: 68 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	33	25	8	8	25	29
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.001	0.001	0.001	0.001	0.001	0.001
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.181	0.181	0.181	0.181	0.181	0.181
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.250	0.245	0.245	0.250	2.000

Company Name: Powergen UK plc			Station Name: Taylors Lane			
Genset ID: TAYL_03Z			Contract Period: 12 months			
Nominated GRC: 64 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	33	25	8	8	25	29
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.001	0.001	0.001	0.001	0.001	0.001
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.181	0.181	0.181	0.181	0.181	0.181
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	2.000	0.250	0.245	0.245	0.250	2.000

Company Name: Regional Power Generators Ltd			Station Name: Brigg			
Genset ID: BRGG_01Z			Contract Period: 12 months			
Nominated GRC: 272 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	118	100	50	50	100	110
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.025	0.025	0.025	0.045	0.045	0.045
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.400	0.400	0.400	0.425	0.425	0.425

Company Name: Scottish Power plc			Station Name: Rye House			
Genset ID: RYEH_01Z			Contract Period: 12 months			
Nominated GRC: 715 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	324	250	50	100	260	281
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.031	0.021	0.010	0.015	0.031	0.052
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.545	1.133	1.092	1.092	1.133	1.545

Company Name: Sutton Bridge Power			Station Name: Sutton Bridge			
Genset ID: SUTB_01Z			Contract Period: 12 months			
Nominated GRC: 803 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	375	249	50	100	241	360
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.060	0.040	0.020	0.102	0.124	0.162
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.100	0.500	0.450	0.450	0.500	1.100

Company Name: TXU Europe - Drakelow Ltd			Station Name: Drakelow			
Genset ID: DRKPS09Z			Contract Period: 12 months			
Nominated GRC: 333 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	0.000	60	50	50	110	137
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.03	0.02	0.04	0.07	0.1
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.075	0.05	0.09	0.12	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.000	0.60	0.50	0.40	0.55	0.85

Company Name: TXU Europe - Drakelow Ltd			Station Name: Drakelow			
Genset ID: DRKPS10Z			Contract Period: 12 months			
Nominated GRC: 333 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	0.000	60	50	50	110	137
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.03	0.02	0.04	0.07	0.1
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.000	0.075	0.05	0.09	0.12	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.000	0.60	0.50	0.40	0.55	0.85

Company Name: TXU Europe - High Marnham Ltd			Station Name: High Marnham			
Genset ID: HMRPS01Z			Contract Period: 12 months			
Nominated GRC: 189 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	57	40	20	20	40	57
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.15	0.15	0.12	0.2	0.2	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.5	0.3	0.2	0.5	0.6	0.8

Company Name: TXU Europe - High Marnham Ltd			Station Name: High Marnham			
Genset ID: HMRPS02Z			Contract Period: 12 months			
Nominated GRC: 189 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	57	40	20	20	40	57
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.15	0.15	0.12	0.2	0.2	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.5	0.3	0.2	0.5	0.6	0.8

Company Name: TXU Europe - High Marnham Ltd			Station Name: High Marnham			
Genset ID: HMRPS03Z			Contract Period: 12 months			
Nominated GRC: 189 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	57	40	20	20	40	57
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.15	0.15	0.12	0.2	0.2	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.5	0.3	0.2	0.5	0.6	0.8

Company Name: TXU Europe - High Marnham Ltd			Station Name: High Marnham			
Genset ID: HMRPS05Z			Contract Period: 12 months			
Nominated GRC: 189 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	57	40	20	20	40	57
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.000	0.000	0.000	0.000	0.000	0.000
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.15	0.15	0.12	0.2	0.2	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.5	0.3	0.2	0.5	0.6	0.8

Company Name: TXU Europe - Ironbridge Ltd			Station Name: Ironbridge			
Genset ID: IRNPS01Z			Contract Period: 12 months			
Nominated GRC: 485 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	166	130	50	75	170	209
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.007	0.005	0.003	0.01	0.03	0.06
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.007	0.005	0.003	0.02	0.035	0.07
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.8	0.5	0.3	0.25	0.4	0.8

Company Name: TXU Europe - Ironbridge Ltd			Station Name: Ironbridge			
Genset ID: IRNPS02Z			Contract Period: 12 months			
Nominated GRC: 485 MW	Maximum Leading Capability	Mid Point Leading Capability	Low point Leading Capability	Low point Lagging Capability	Mid Point Lagging Capability	Maximum Lagging Capability
Capability (Mvar)	Q3Lead:	Q2Lead:	Q1Lead:	Q1Lag:	Q2:Lag	Q3:Lag
	157	125	50	75	170	207
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.007	0.005	0.003	0.01	0.03	0.06
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.007	0.005	0.003	0.02	0.035	0.07
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	0.8	0.5	0.3	0.25	0.4	0.8

Appendix 5 - Generation Utilisation Volumes by Unit - Oct 01 - Mar 02

Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Oct-01		Nov-01		Dec-01		Jan-02		Feb-02		Mar-02			
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
ABTHB07Z	M	3,132	6,691	4,703	7,108	8,262	5,770	5,132	5,861	5,792	5,376	4,291	4,326	31,312	35,131
ABTHB08Z	M	2,634	4,692	2,617	6,023	7,387	3,201	4,779	4,324	1,131	9,695	3,059	6,249	21,607	34,183
ABTHB09Z	M	2,122	5,558	2,690	7,406	3,629	5,895	4,547	9,077	4,726	6,483	4,208	6,965	21,922	41,384
AESB_01Z	D	2,220	3,895	2,122	3,695	2,326	7,208	2,384	5,132	3,156	2,862	3,130	2,853	15,339	25,645
BARK_02Z	D	18,192	18,462	10,828	24,538	14,169	18,560	10,835	18,199	11,728	12,673	13,544	10,721	79,297	103,154
BARK_11Z	D	15,897	18,201	10,862	23,342	14,235	17,879	10,494	17,515	9,236	13,354	12,547	10,770	73,271	101,060
BRGG_01Z	D	956	3,501	1,206	4,690	2,761	1,014	500	5,067	787	3,272	1,155	2,978	7,365	20,522
BRWE_01Z	D	619	581	992	125	453	381	140	601	778	575	165	604	3,148	2,866
BRWE_02Z	D	236	552	707	54	500	964	306	972	1,242	401	311	748	3,302	3,691
BRWE_03Z	D	851	164	1,816	119	864	125	281	474	44	356	635	214	4,490	1,452
BRWE_04Z	D	1,135	622	3,370	106	710	326	592	549	411	307	788	419	7,005	2,329
BRWE_05Z	D	417	948	2,305	345	332	701	15	70	500	201	221	264	3,788	2,529
BRWE_06Z	D	216	1,291	2,313	280	58	1,428	2	140	302	633	118	1,198	3,009	4,971
CDCL_01Z	D	0	0	0	0	0	0	0	0	76	1,766	1,289	15,253	1,365	17,019
CNQPS01Z	M	2,194	9,933	2,961	9,876	2,453	1,939	2,369	14,007	1,648	12,442	2,813	6,601	14,439	54,798
CNQPS02Z	M	2,430	10,767	2,441	11,757	5,219	8,613	2,394	12,628	862	14,565	2,568	6,124	15,912	64,453
CNQPS03Z	M	2,371	9,692	3,044	5,830	6,781	7,642	0	0	161	9,585	3,026	5,659	15,383	38,409
CNQPS04Z	M	1,967	9,763	2,368	13,340	5,141	11,167	3,466	14,629	1,418	14,974	1,682	5,658	16,043	69,532
CORB_01Z	M	7,460	8,960	2,317	17,638	3,524	13,519	5,224	7,335	5,363	6,209	3,290	8,888	27,177	62,548
COTPS01Z	D	1,125	12,148	2,015	25,471	3,319	21,467	2,324	34,775	1,230	25,206	2,017	21,122	12,031	140,189
COTPS02Z	D	2,407	21,674	1,629	31,285	5,227	24,937	2,218	23,522	2,135	27,958	2,150	21,731	15,767	151,107
COTPS03Z	D	1,830	17,757	1,224	28,783	3,077	15,878	3,648	5,015	3,283	5,288	1,571	6,076	14,632	78,798
COTPS04Z	D	991	3,047	1,872	16,491	5,065	19,988	2,632	30,859	1,344	20,192	2,261	10,362	14,166	100,939
COWE_01Z	D	0	74	0	45	0	0	0	52	0	45	0	0	0	215
COWE_02Z	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Oct-01		Nov-01		Dec-01		Jan-02		Feb-02		Mar-02			
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
DAMC_01Z	D	24,613	14,091	18,327	18,804	19,200	23,380	19,304	18,418	20,337	9,265	14,814	8,533	116,595	92,491
DEEP_01Z	M	4,949	20,244	7,106	14,594	11,774	9,637	6,720	31,793	1,146	27,709	4,671	23,129	36,366	127,106
DERW_01Z	M	4,981	2,778	7,145	1,603	1,901	8,589	2,051	6,204	1,367	5,605	1,140	9,683	18,584	34,463
DIDC_01G	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIDC_01Z	M	0	0	121	584	0	74	0	222	0	6	0	0	121	887
DIDC_02G	D	0	0	0	4	0	0	0	2	0	0	0	0	0	6
DIDC_02Z	D	0	0	0	0	1,371	6,236	6,590	10,274	7,076	5,158	3,430	5,981	18,467	27,648
DIDC_03G	D	0	0	0	2	0	0	0	4	0	0	0	0	0	5
DIDC_03Z	D	5,011	7,951	4,770	10,876	8,138	10,689	5,640	16,818	5,322	7,912	6,461	9,074	35,342	63,320
DIDC_04G	D	0	0	0	0	0	0	0	3	0	0	0	0	0	3
DIDC_04Z	M	2,184	4,888	2,846	9,067	6,471	15,671	3,846	16,682	6,049	10,025	2,781	8,502	24,177	64,835
DIDCB05Z	M	15,410	11,575	11,380	17,804	9,528	12,547	12,892	19,882	16,162	15,780	16,201	14,911	81,572	92,498
DIDCB06Z	M	15,081	10,134	8,844	18,644	10,517	16,910	18,788	21,427	16,962	17,053	16,506	14,950	86,698	99,119
DINO_01Z	D	9,201	416	8,418	430	6,194	842	12,445	105	8,205	322	2,883	443	47,347	2,557
DINO_02Z	D	11,067	1,937	5,356	838	6,033	982	11,049	452	4,819	1,310	6,356	1,698	44,679	7,217
DINO_03Z	D	3,935	386	6,558	424	5,785	3,569	10,941	2,292	5,541	2,146	7,639	1,379	40,400	10,196
DINO_04Z	D	6,800	1,479	6,072	906	4,351	1,582	8,454	492	8,164	1,079	3,372	357	37,213	5,895
DINO_05Z	D	1,938	65	8,294	1,127	4,275	4,853	9,577	2,135	4,423	1,195	2,231	2,131	30,738	11,506
DINO_06Z	D	9,636	2,410	9,074	1,457	4,336	3,310	10,699	643	2,520	389	7,243	497	43,508	8,706
DNGB_21Z	M	3,847	2,179	10,488	6,414	14,896	5,712	5,211	2,392	1,585	1,301	0	0	36,027	17,999
DNGB_22Z	M	15,858	1,786	10,593	2,112	11,986	6,314	8,636	3,233	16,303	3,555	6,740	2,408	70,115	19,407
DRAXX01Z	M	1,714	10,959	3,724	38,865	5,531	33,422	3,032	45,442	1,566	38,036	1,514	22,390	17,081	189,114
DRAXX02Z	M	421	28,728	332	31,272	923	30,600	2,146	50,498	927	37,555	509	19,201	5,257	197,853
DRAXX03Z	M	9,049	9,919	18,107	6,952	20,083	3,842	12,746	9,352	8,938	10,102	10,393	7,866	79,316	48,033
DRAXX04Z	M	7,102	42,228	5,352	37,828	5,657	29,141	6,341	42,189	2,814	38,998	8,134	37,365	35,400	227,748
DRAXX05Z	M	3,512	36,215	1,631	37,793	4,879	27,005	2,605	34,705	2,210	30,203	1,674	16,194	16,511	182,115
DRAXX06Z	M	3,319	30,565	2,212	37,617	5,031	28,391	2,478	41,021	4,022	33,209	1,569	27,818	18,631	198,621

Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Oct-01		Nov-01		Dec-01		Jan-02		Feb-02		Mar-02			
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
DRAXX09G	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRAXX10G	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRAXX12G	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRKPS09Z	D	1,183	2,627	3,126	9,502	3,109	8,630	2,804	9,333	3,425	7,348	2,859	6,509	16,505	43,949
DRKPS10Z	D	2,790	5,582	4,742	9,486	5,329	8,093	2,550	12,746	1,838	6,933	2,819	5,091	20,069	47,930
DRKPS12Z	D	1,164	8,075	2,217	17,921	1,907	13,095	2,282	17,805	1,524	11,827	0	0	9,094	68,723
DUNGA01Z	D	1,602	3,339	374	4,507	831	5,893	126	5,389	1,899	1,384	6,114	382	10,945	20,894
DUNGA02Z	D	0	0	0	0	0	0	0	100	616	3,079	3,314	1,505	3,930	4,684
DUNGA03Z	D	4,546	1,377	1,762	2,173	1,612	3,993	1,080	3,754	1,714	3,319	8,420	362	19,136	14,978
DUNGA04Z	D	5,787	742	1,716	2,413	4,124	2,286	3,266	922	2,930	1,134	11,229	563	29,053	8,061
EECL_01Z	D	0	0	2,103	2,219	367	5,760	737	2,218	1,089	2,851	4,554	7,441	8,851	20,489
EGGPS01Z	D	936	17,049	1,778	25,526	3,320	15,639	2,289	18,634	1,160	15,925	1,820	15,962	11,303	108,735
EGGPS02Z	D	1,254	14,674	2,771	23,832	1,767	14,225	3,066	16,329	902	12,319	1,164	10,226	10,924	91,605
EGGPS03Z	D	3,174	22,679	1,914	33,395	3,598	19,784	1,081	26,912	2,556	14,257	1,553	11,799	13,876	128,827
EGGPS04Z	D	2,757	23,234	2,748	29,553	2,236	16,497	1,492	21,772	2,725	18,608	1,677	14,752	13,635	124,416
FAWL_03Z	M	142	262	130	1,993	166	2,012	123	2,797	35	505	60	1,905	656	9,473
FAWN_01Z	D	0	0	0	0	0	0	0	0	4	50	694	203	698	254
FELL_01Z	D	2,584	2,764	725	6,418	196	10,604	10	13,801	84	9,784	92	10,863	3,690	54,234
FERR_01Z	D	1,683	5,256	1,350	12,086	5,835	11,960	1,422	14,292	2,425	5,928	1,894	6,336	14,610	55,860
FERR_02Z	D	1,517	10,824	2,327	15,178	6,039	11,203	1,860	11,087	2,383	8,467	2,054	9,544	16,179	66,304
FERR_03Z	D	2,273	13,203	2,530	17,011	3,637	11,336	1,076	12,739	1,693	9,694	2,600	10,905	13,810	74,889
FERR_04Z	D	702	8,378	1,713	10,727	2,438	6,692	1,720	9,956	773	9,122	1,139	6,868	8,484	51,742
FFES_01Z	D	0	0	4	47	322	1,043	359	723	337	711	181	751	1,202	3,276
FFES_02Z	D	0	0	0	0	0	0	0	0	65	327	72	434	137	761
FFES_03Z	D	1,759	547	874	500	1,203	47	555	518	1,610	107	1,374	103	7,374	1,822
FFES_04Z	D	1,189	18	2,006	43	935	203	2,202	191	1,954	362	1,409	313	9,695	1,130
FIDL_01Z	D	2,042	948	4,234	4,605	5,218	3,456	5,714	2,832	1,764	620	2,640	1,811	21,612	14,272

Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Oct-01		Nov-01		Dec-01		Jan-02		Feb-02		Mar-02			
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
FIDL_02Z	D	9,317	3,113	2,399	2,694	8,335	4,359	2,930	4,405	2,925	1,570	5,221	2,728	31,127	18,869
FIDL_03Z	D	10,084	111	23,768	447	10,117	395	6,887	284	4,563	197	12,508	20	67,926	1,455
FIDL_04Z	D	9,465	4,176	2,903	2,433	6,797	6,082	5,546	3,449	7,367	1,093	8,070	848	40,148	18,080
FIFO_13Z	D	505	859	1,147	1,294	688	812	1,683	1,567	3,596	51	0	0	7,620	4,583
FIFO_14Z	D	0	0	141	338	425	1,033	993	4,699	1,085	933	0	0	2,643	7,002
FIFO_15Z	D	0	0	103	198	935	3,008	1,692	1,833	909	369	0	0	3,639	5,409
GRAI_01Z	M	507	499	59	105	557	1,753	390	1,117	13	219	0	0	1,526	3,692
GRAI_04Z	M	35	23	362	581	628	1,900	2,316	2,138	0	0	0	0	3,341	4,642
HEYM101Z	M	1,301	50,103	588	6,374	5,260	44,347	8,240	43,382	19,114	34,094	8,197	13,431	42,700	191,731
HEYM102Z	M	2,253	62,472	4,210	60,911	3,639	27,066	2,453	54,391	5,466	48,656	14,798	30,749	32,818	284,244
HEYM207Z	M	2,181	52,202	3,112	55,265	4,976	36,544	3,299	50,410	0	75,720	0	80,229	13,568	350,370
HEYM208Z	M	2,268	50,236	5,930	54,879	5,371	40,862	3,575	58,262	6,392	39,357	14,819	25,702	38,355	269,298
HINB_07Z	D	11,593	4,956	11,034	5,170	690	26,142	7,955	7,590	5,806	6,785	6,152	6,901	43,231	57,544
HINB_08Z	D	26,290	6,451	18,642	6,469	27,736	8,283	16,105	16,863	17,620	7,035	13,595	2,149	119,987	47,250
HMRPS01Z	D	442	337	563	1,792	1,935	1,041	2,206	810	642	1,017	2,407	986	8,196	5,983
HMRPS02Z	D	1,025	14	6,048	18	4,977	5	14,017	28	1,972	231	3,432	408	31,471	704
HMRPS03Z	D	530	220	974	833	744	1,832	844	3,398	174	1,070	911	2,435	4,177	9,790
HMRPS04Z	D	1,830	68	3,069	317	3,747	123	0	0	0	0	0	0	8,646	508
HMRPS05Z	D	2,965	226	3,117	294	4,981	353	9,353	177	1,430	337	2,555	1,915	24,401	3,301
HRTL_01Z	M	69	29,340	50	85,580	799	74,496	723	76,326	823	57,673	1,305	44,141	3,769	367,556
HRTL_02Z	M	423	87,316	116	74,788	1,071	31,711	773	70,896	1,149	71,064	1,427	61,544	4,959	397,318
IRNPS01Z	M	1,926	4,113	3,258	14,584	3,137	13,829	2,905	14,352	2,837	17,032	6,184	4,269	20,247	68,179
IRNPS02Z	M	4,037	2,060	21,350	1,175	26,261	1,464	19,944	1,159	21,851	642	3,848	4,822	97,291	11,321
KEAD_01Z	M	3,048	46,941	5,034	62,549	3,139	44,995	3,219	67,180	2,092	57,862	6,439	56,978	22,971	336,504
KILLP01Z	M	541	7,134	1,273	19,741	282	16,243	969	14,465	845	13,180	1,142	1,531	5,052	72,293
KILLP02Z	M	2,647	23,451	892	11,347	2,449	25,107	1,539	32,878	1,186	21,599	1,635	20,066	10,348	134,448
KILNS01Z	D	2,473	24,612	1,334	22,428	1,716	15,519	1,189	27,938	488	3,515	2,413	17,342	9,614	111,354

Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Oct-01		Nov-01		Dec-01		Jan-02		Feb-02		Mar-02			
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
KINO_01Z	M	6,052	5,410	4,861	10,040	4,385	4,997	6,389	14,890	5,925	8,883	5,633	1,324	33,244	45,543
KINO_02Z	M	4,427	2,850	6,131	10,288	10,803	8,299	9,145	12,040	4,433	3,430	2,400	1,544	37,339	38,451
KINO_03Z	M	5,251	7,295	11,460	11,464	8,696	8,651	9,493	14,936	8,509	6,661	6,023	2,968	49,432	51,976
KINO_04Z	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLYNA01Z	M	2,209	12,284	1,750	24,231	3,715	21,753	3,267	18,980	6,160	14,746	5,427	17,368	22,528	109,362
LBAR_01Z	D	5,472	26,580	1,141	69,148	916	53,424	1,258	76,189	1,256	55,683	3,834	48,584	13,877	329,608
LITTD01G	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LITTD01Z	D	24	898	276	548	0	0	304	1,986	321	578	0	0	926	4,009
LITTD02G	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LITTD02Z	D	0	0	36	444	819	3,592	162	932	0	0	7	8	1,024	4,976
MEDP_01Z	M	31,363	6,898	28,188	8,335	23,988	7,836	29,900	5,775	10,401	4,046	23,162	7,404	147,001	40,293
OLDS_01Z	D	4,034	9,958	3,038	12,958	6,835	8,979	3,562	15,683	266	12,634	185	28,487	17,921	88,699
OLDS_02Z	D	7,469	6,452	5,061	9,570	5,956	8,038	5,968	7,056	2,049	9,550	4,266	9,437	30,770	50,103
PETEM01Z	M	2,816	9,542	3,830	6,489	4,491	6,017	3,228	6,550	5,032	3,150	4,224	3,870	23,621	35,619
RATS_01Z	M	4,568	20,683	5,172	32,266	4,490	28,590	3,631	39,505	3,988	22,460	1,666	16,430	23,515	159,933
RATS_02Z	M	6,088	16,294	4,479	23,503	2,776	26,706	4,223	36,898	2,885	20,989	3,523	17,987	23,973	142,376
RATS_03Z	M	2,061	8,660	1,582	30,551	3,459	29,137	1,247	31,613	632	25,592	867	13,772	9,847	139,325
RATS_04Z	M	2,513	11,101	162	1,026	0	0	0	0	1,143	13,840	1,922	17,470	5,740	43,437
ROCK_01Z	D	8,624	14,395	7,034	15,589	10,767	13,467	8,321	18,712	8,269	17,636	12,743	10,380	55,758	90,179
ROOS_01Z	M	1,014	1,939	935	2,933	1,438	3,816	444	5,095	898	4,519	791	1,956	5,519	20,257
RUGPS06G	D	0	0	0	0	0	18	0	17	0	10	0	3	0	49
RUGPS06Z	M	4,291	8,708	2,661	19,285	6,513	16,032	4,525	17,697	6,266	11,633	4,982	8,001	29,238	81,354
RUGPS07G	D	568	12	3	3	100	49	123	55	66	20	0	16	861	155
RUGPS07Z	M	4,185	16,920	4,615	18,120	8,219	15,668	5,669	21,050	4,543	16,373	4,204	8,187	31,434	96,318
RYHPS01Z	M	0	0	9,936	50,168	5,257	32,426	3,148	29,620	6,959	22,284	18,354	23,379	43,654	157,878
SEAB_01Z	D	0	0	4,160	9,875	16,178	10,317	7,898	12,134	6,641	12,709	11,300	10,143	46,179	55,178
SEAB_02Z	D	6,299	3,667	5,195	7,416	10,914	9,648	5,100	13,380	6,360	8,114	7,293	4,306	41,161	46,531

Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Oct-01		Nov-01		Dec-01		Jan-02		Feb-02		Mar-02			
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
SHBA_01Z	D	8,944	7,798	6,483	9,586	12,040	4,575	5,881	9,525	5,178	7,843	6,635	7,334	45,161	46,661
SHBA_02Z	D	6,374	7,220	3,952	7,830	9,918	4,421	6,284	6,085	4,346	8,386	5,492	6,289	36,365	40,231
SIZB_01Z	M	4,597	12,557	3,862	24,835	4,985	23,814	4,497	26,422	2,822	15,189	7,977	16,697	28,741	119,514
SIZB_02Z	M	6,443	11,297	20,589	70,479	6,466	20,889	5,066	24,906	3,981	12,184	10,037	12,631	52,581	152,386
SIZEA01Z	D	2,422	5,323	1,395	8,194	2,069	8,868	1,385	9,048	2,805	5,243	5,165	4,125	15,241	40,801
SIZEA02Z	D	3,144	5,387	1,600	9,120	1,860	9,432	1,484	9,339	6,772	2,798	1,244	6,715	16,105	42,792
SUTB_01Z	D	10,503	21,120	5,788	48,801	5,757	43,542	5,150	46,005	5,708	27,187	10,217	24,255	43,124	210,909
TAYL_02Z	M	1,177	13	740	1,025	0	12	4	59	2	4	0	0	1,924	1,113
TAYL_03Z	M	8	9	1,769	11	2	4	8	34	0	3	0	0	1,787	60
TESI_01Z	D	3,913	28,135	1,057	34,110	6,009	24,676	2,816	32,076	3,181	26,272	3,597	22,538	20,574	167,806
TESI_02Z	D	2,552	23,654	2,887	21,403	4,888	12,378	3,131	14,478	1,402	16,420	2,861	16,402	17,721	104,735
TILBB08Z	D	5,606	14,734	3,830	19,848	3,642	10,858	4,074	14,951	4,703	3,540	6,377	6,036	28,232	69,967
TILBB09Z	D	0	0	136	765	4,335	9,682	6,030	5,006	3,153	6,891	2,340	3,087	15,994	25,430
TILBB10Z	D	6,892	16,628	2,859	17,888	1,262	8,036	0	0	2,934	6,670	6,198	7,128	20,145	56,351
WBUPS01Z	M	1,173	32,470	909	49,202	1,902	38,106	1,461	57,870	1,678	39,074	499	39,558	7,622	256,281
WBUPS02Z	M	648	46,452	1,564	52,382	2,220	44,987	1,597	55,697	1,974	46,035	1,133	43,775	9,136	289,328
WBUPS03Z	M	1,230	39,041	838	51,419	1,876	40,479	837	51,888	1,041	49,378	1,007	46,779	6,829	278,983
WBUPS04Z	M	671	15,367	1,850	44,428	3,014	46,135	1,467	47,416	1,314	22,679	1,173	30,807	9,488	206,832
WYLF_01Z	D	10,355	634	16,070	1,356	21,294	449	16,823	647	9,553	1,646	10,085	474	84,179	5,205
WYLF_02Z	D	19,592	54	19,439	231	21,507	312	17,383	494	9,054	1,437	9,455	584	96,430	3,112
WYLF_03Z	D	26,639	20	19,580	311	23,711	65	19,967	426	12,613	2,078	13,741	250	116,252	3,150
WYLF_04Z	D	15,118	743	15,491	520	24,894	170	15,024	4,006	15,436	429	12,931	1,080	98,894	6,948
Subtotal	DPM	383,947	484,306	351,610	703,918	435,544	619,305	374,851	692,523	297,232	490,243	345,460	464,844	2,188,645	3,455,139
Subtotal	Market	231,256	1,007,409	278,554	1,400,179	318,751	1,123,694	266,554	1,476,970	245,077	1,204,976	265,401	978,837	1,605,592	7,192,065
Total	Mvarh	615,203	1,491,715	630,164	2,104,097	754,295	1,743,000	641,405	2,169,493	542,309	1,695,219	610,861	1,443,681	3,794,237	10,647,204

Appendix 6 - Tender Assessment Procedure

A6 Introduction

A6.1 National Grid assessed the ninth Reactive Power Market tender round consistent with the process applied to all previous tender rounds, as detailed in CUSC. Analytical processing was conducted in six-monthly segments in order to consider any interaction with the overlap of contracts secured during the previous Reactive Power Market tender rounds.

A6.2 National Grid divided the process of assessing tenders into several stages, which were addressed as follows:

- *Tender Receipt and Registration*: The tenders were opened, in the presence of a separate witness and all tender data was transcribed into TARDIS (Transmission Ancillary Reactive Database Information System).

- *Tender Data validation*: All database entries were then separately checked back to the original tender sheets. TARDIS compliance checks showed that all tenders submitted were indeed compliant.

- *Obligatory Reactive Power Service Assessment*: The tenders were assessed against likely outgoings, taking into account the many interacting factors associated with each tender acceptance decision, as described in CUSC Schedule 3, Appendix 6. This involved, inter-alia, evaluation against projections of expenditure and availability of service against historic and forecast Mvar and Mvarh data to produce central views of the money payable under the DPM or a market agreement (described below). The overall assessment was supported by an examination of many credible sensitivities around the central view.

- *Enhanced Reactive Power Service Assessment*: Had National Grid received any ERPS tenders these would have been considered on a case-by-case basis against possible alternatives, such as transmission constraints or National Grid investment.

A6.3 Core Analytical processing

- Tender assessment takes place in the context of uncertainties and interactions affecting reactive payments and transmission requirements. To initiate the assessment of the overall value of each tender, it is considered necessary to construct a central view of future payments so that the relative impact of the factors influencing the economic evaluation of tenders can be fully addressed.

For each genset tendered for 2002/03, the processing was as follows:

- Forecast Mvarh generated, in each band by reactive Mvar breakpoints, were set via extrapolations from historic observations and forecast load factors. The historic observations covered the period 1997 to 2001 and came from the Ancillary Services records against which reactive power utilisation is currently being paid.

- The default utilisation money was set at forecast Mvarh multiplied by the utilisation price of £1.37/ Mvarh nationally. (Derived from CUSC Schedule 3)

- Market agreement capability money was set at tendered price multiplied by tendered capability, allowing for break-points, multiplied by forecast hours both available and synchronised.

- Market agreement utilisation money was set at tendered prices, multiplied by the above forecast Mvarh, respecting the tendered break-point bands of Mvarh utilisation.

- The core comparison of default versus market agreement is based on the forecast payments detailed above. Reactive power assessment is however, by no means as simple as taking the cheapest option. A full understanding of the factors influencing reactive power requirements on the National Grid Transmission System must be taken into account to provide a complete economic assessment of tender value.

A6.4 Assessment Sensitivities

- The principal role of tender assessment is to quantify and evaluate consistently the many factors that National Grid and the then Reactive Power Market Working Group (RPMWG) have agreed should be considered. These factors are those referred to in 5.3(e)(ii) of CUSC Schedule 3 and are cross-referenced in section 2.12 of the Invitation to Tender pack. The National Grid evaluation team has developed and implemented a process enabling these factors and associated uncertainties to be methodically considered.

- The RPMWG accepted at the outset of the reactive market that aspects of the tender evaluation process would be subjective in nature. It was therefore important to establish a framework within which this subjectivity could be exercised in a consistent fashion across all tenders.

Specific questions were asked of each tender, examples of which follow:

- *Would a Market Agreement (central case assessment) give a reduction in*

payments?

- *Would a Market Agreement reflect the effectiveness at providing voltage support at that location?*

- *Would a Market Agreement be robust against:*

  - *expected individual variations in utilisation due to:*
  - *a new station opening nearby*
  - *an existing nearby station closing*
  - *trends in local reactive power demand*

- *Would a Market Agreement enhance the incentive on the Generator to maintain his Grid Code capability?*

- *How would a Market Agreement affect operational despatch?*

- *To what extent might a Market Agreement potentially offset National Grid investment?*

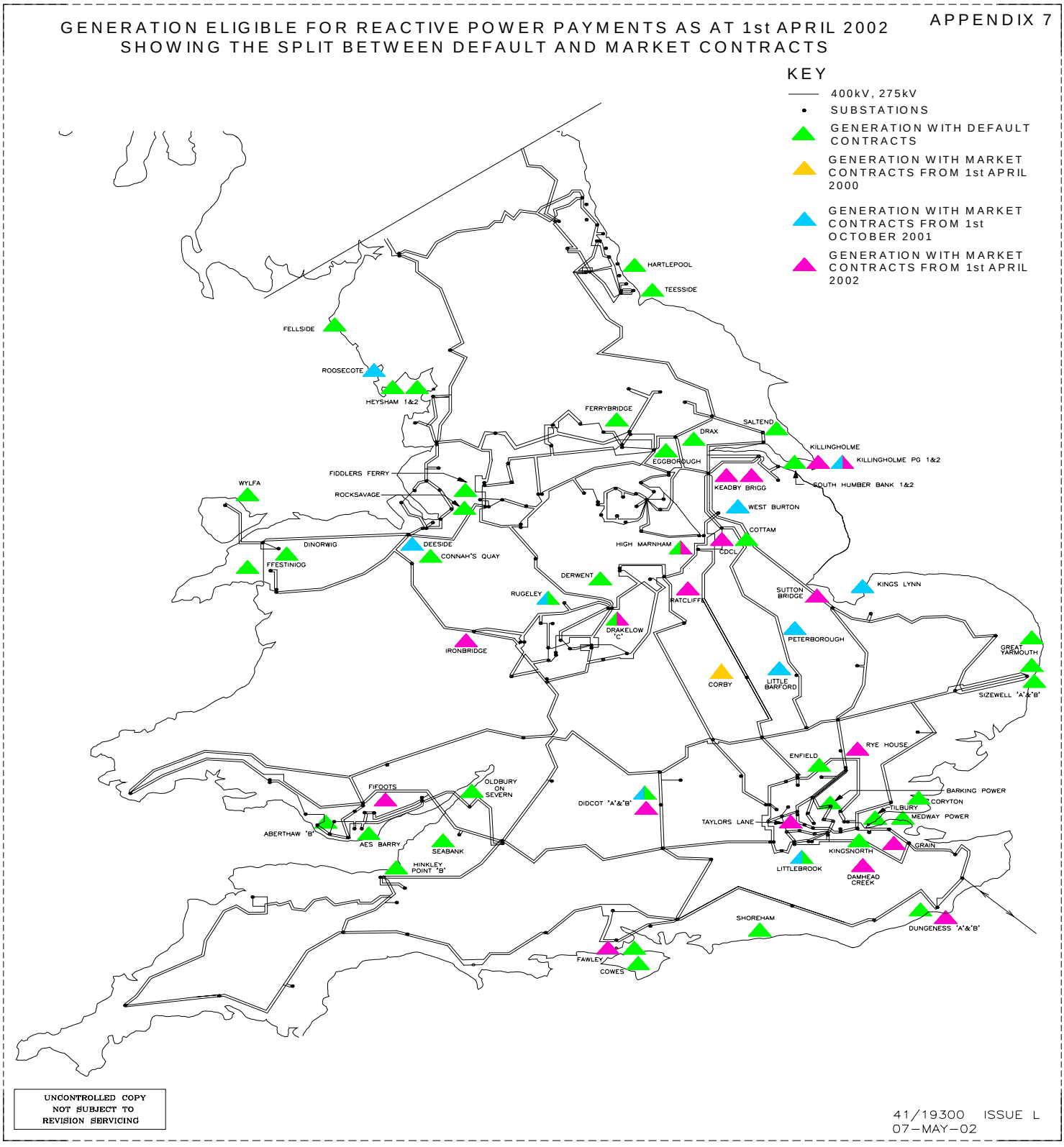
- *Would a Market Agreement for ORPS enable a desired contract for ERPS?*

- All other criteria in CUSC Schedule 3, paragraph 3, are covered by this methodology.

- In all cases, National Grid continued to consider interaction with forecast transmission constraints. In all cases there were insignificant interactions with constraints identified.

- In all cases, National Grid considered possible interaction with National Grid planned investments. The commissioning in 2002/03 of new National Grid transmission equipment, which includes some reactive compensation equipment, influenced National Grid's view of forecast Mvarh. All of the commissioning equipment is required for compliance with Transmission Licence Standards, and re-phasing of planned National Grid investments within a 12-month contract period is not a practical option.

Appendix 7 - Geographic Distribution between DPM and Market Contracts



Appendix 8 - Contact Numbers

A8.1 Comments, suggestions and enquiries can be directed to:

Sarah Peaceful or Paul Bagg
Contracts and Trading
National Grid

On telephone no.: **024 7642 3963/3128**

A8.2 Further report information may be obtained by contacting:

Operations and Trading
National Grid House
Kirby Corner Road
Coventry
CV4 8JY

A8.3 For any other information please visit the National Grid website on the following address:

www.nationalgrid.com/uk/balancing/indinfo/balancing/mn_reactive.html