



National Grid

National Grid Reactive Market Report
Eighth Tender Round for Obligatory and
Enhanced Reactive Power Services
for
Contracts Effective from 1 October 2001

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Executive Summary

This report describes the eighth tender round process for reactive market contracts commencing 1 October 2001. 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 1 April 2001 to 30 September 2001. 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 10 August 2001, tenderers were notified of the results of their respective tenders. The main points are as follows:

- On 1 June 2001 ('Market Day') tenders were received from 39 BM Units representing 21 stations from 18 Generating Companies. All were in respect of the Grid Code Obligatory Service only. No tenders were received from non-BM Unit providers.
- All tenders received were for a duration of 12 months.
- Tenderers included both portfolio and independent generating companies.
- Of the 39 tenders evaluated, National Grid offered Market Agreements to 17, of which 15 proceeded to contract.
- As at 1 October 2001 there are a total of 58 BM Units from a possible 158 on a Reactive Market Agreement; 2 from tender round 5, 43 from tender round seven and 15 from this, the eighth, tender round.

The next 'Market Day' for Market Agreements commencing on 1 April 2002, is 30 November 2001. Invitation To Tender (ITT) packs for tender round 9, have been available on the website since 2 October 2001. BM Units with contracts commencing 1 October 2001 cannot be re-tendered until the tenth round for contracts, commencing 1 October 2002, at the earliest, in accordance with the 12 month minimum contract duration.

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Introduction

- 1.1 On 1 June 2001, National Grid held the eighth Reactive Power Market tender round. This enabled any potential provider that fulfilled the qualification criteria specified in Schedule 3 of the Connection and Use of System Code (CUSC) to tender for a Market Agreement.
- 1.2 Potential tenderers comprise of the following types of providers:
 - 1.2.1 Generators required to provide the minimum Grid Code Obligatory Reactive Power Service (ORPS) and already in receipt of the default payment arrangements, wishing to tender alternative payment terms for ORPS.
 - 1.2.2 Generators that have a reactive capability in excess of that which it is obliged to provide as the Obligatory Reactive Power Service, known as the "Grid Code Plus Enhanced Reactive Power Service".
 - 1.2.3 Any other eligible Service Provider able to offer other plant or apparatus which can generate or absorb reactive power, known as the Enhanced Reactive Power Service. The only requirement is that these Service Providers must fulfill the default market qualification criteria and are capable of making their capability available for use by National Grid.
- 1.3 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 1 October 2001.
- 1.4 This report also reviews the outcome of this eighth Reactive Power Market tender round in the context of previous tender rounds and the services delivered to the National Grid Transmission System.
- 1.5 Utilisation of the National Grid Transmission System data for the period April 2001 to September 2001 have been included (see appendix 4).

2 Voltage Requirements

- 2.1 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.
- 2.2 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.
- 2.3 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 DPM (Default Payment Mechanism) has ceased, National Grid still seeks capability based market agreements to ensure post fault reserves are maintained.

3 Results of tender round eight

3.1 Nature of tenders received

3.1.1 Tenders were received from 39 generating units at 21 power stations, representing 18 Generating Companies. All tenders were from BM Unit providers offering the Grid Code ORPS service only, all with contract duration of 12 months.

3.1.2 Of the tenders received, the majority appeared to be seeking reactive capability biased contracts.

3.2 Tender Assessment

3.2.1 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 5 of this report.

3.3 Observations of tender round eight

3.3.1 Over the last few tender rounds, we have observed a trend of increasing prices as some Service Providers have sought to maximise the perceived value of their capability. At the higher end, these prices have not ultimately proved economic to National Grid under its evaluation criteria, hence the reduction in the number of accepted tenders.

However it is notable from the pricing of tenders from this tender round 8 that a number of providers have reviewed their prices downwards to re-secure an agreement and hence, assure a firm income.

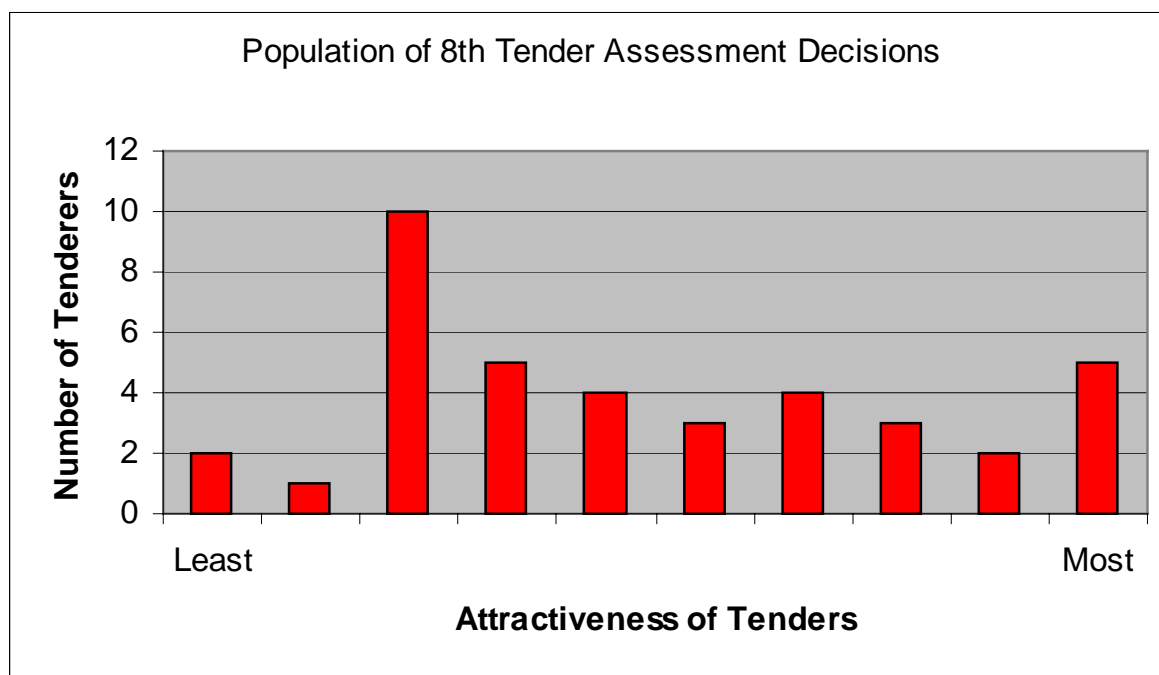
3.3.2 All Service Providers offered utilisation prices (at the lowest breakpoints) below the default payment figure applicable to 2001/02 of £1.33/Mvarh. To compensate for this, these types of tender requested a payment for capability, but would still yield a total cost of the same order as the DPM in most cases. National Grid values this form of tender as it enables the optimisation of Mvarh despatch, i.e. the re-despatch from more expensive to cheaper sources.

3.3.3 44% of tenderers' utilisation price for the final breakpoint, was above that of the DPM. This signals to National Grid that the generator would prefer not to be despatched in this region of operation. Efforts would be made by the System Operator not to despatch these generators at the outer limits except perhaps under fault conditions.

3.4 Assessment Results

3.4.1 Of the 39 tenders evaluated, National Grid offered Market Agreements to 17, of which, 15 proceeded to contract.

3.4.2 The range of assessment outcome is shown in the histogram below. A number of tenders were highly unattractive, in that they sought capability payments significantly above expectations of default payments and National Grid's value of capability. Hence 56% of tenders were rejected in this tender round 8.



Histogram of 8th tender round assessment decisions

3.4.3 A complete list of BM Units for 2001/2002 is given in Appendix 1. This list also records those BM Units that have signed market agreements. Whether or not they will be in a position to tender into Tender Round 9 depends upon their existing contractual status. Appendix 2 provides a definitive list of Market Agreements applicable from 1 October 2001, with Figure 1 illustrating the geographic distribution of market and default agreements. Details of the successful tenders submitted for contracts commencing 1 October 2001 are listed in Appendix 3.

3.5 Concluding Observations

- 3.5.1 Since 1 April 2000 payments under the DPM have been made purely on utilisation. National Grid values capability biased tenders which are structured with lower utilisation (£/Mvarh) prices - such tenders will offer greater certainty for both National Grid and tenderers, and provide a basis for economic despatch. In the case of low load factor plant, such a tender is helpful to National Grid in aligning its forecast of likely synchronisation in respect of marginal plant with that of the Service Provider.
- 3.5.2 All the tenders received were in respect of ORPS only and were of 12 months duration. National Grid welcomes longer-term tenders and tenders offering an Enhanced Reactive Power Service (ERPS). However the value of such contracts may change from year to year as system reactive needs evolve.

4 Generating Unit Reactive Mvarh Utilisation

- 4.1 This section details a six-month breakdown of reactive metered genset utilisation for the period April 2001 to September 2001.
- 4.2 Table 4.1 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 April 2001 to September 2001 is provided in Appendix 4.

Month	Utilisation Volume (Mvarh)		
	Market Agreements	DPM	Total = Market Agreements + DPM
Apr 01	1,062,718	962,359	2,025,078
May 01	1,066,330	899,797	1,966,127
Jun 01	1,136,289	875,791	2,012,081
Jul 01	888,413	1,181,041	2,069,454
Aug 01	799,095	1,058,771	1,857,866
Sept 01	913,809	935,725	1,849,534
Total	5,866,655	5,913,484	11,780,138

Table 4.1 - Summary of Generator Reactive utilisation April 01 – Sept 01

- 4.3 Table 4.2 shows six monthly utilisation totals since 1996, sorted by the Seven Year Statement defined regions - North, Midland and South.
- 4.4 The volumes set out in table 4.2 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

Table 4.2 – Generator Reactive Utilisation (Tvarh) by region

5 Comparisons with previous Tender Rounds

5.1 Table 5.1 provides a summary of the eight tender rounds to date.

Tender Round	Eligible Units	Unit tenders Received	ORPS	ORPS + ERPS	12 month	>12 months	Successful Gensets offered market agreements	Successful Gensets signing market agreements	% 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%

Table 5.1 - Reactive Market Tender Submission Statistics

5.2 Tender round eight is comparable with tender rounds two, four and six, as all occur in the middle of the financial year. Tender round 8 saw a marked increase in tenders received, compared with similar rounds.

Tender round	% participation of eligible units	% success (of eligible participating units)
2	9	50
4	20	25
6	26	60
8	35	38

Table 5.1 - Reactive Market Tender Participation Statistics

5.3 Of the 15 tenders submitted in tender round 6, 9 retendered in tender round 8, but none of these were successful in this tender round.

5.4 From 1 October 2001 there are a total of 60 BM Units on a reactive Market Agreement, 2 from tender round five, 43 from the seventh tender round and 15 from this, the eighth tender round. As mentioned in Table 5.1 the 60 gensets provide approximately 57% of total available lagging capability via Market Agreements.

6 Estimates of National Grid System Reactive Utilisation April 2001 to September 2001

6.1 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 30 September 2001.

6.2 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 6.1 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, this is given in Table 6.2. It should be noted that this information is based on estimates and operational records only.

6.3 The simple reactive balance found in Table 6.1 can be described by the equation:

$$\text{[Generation Net Tvarh]} = \text{[Net Reactive Demand at GSPs Tvarh]} - \text{[Net NGC System Tvarh]}$$

For example, for June 2001, (1.31 - 0.69 = 5.06 - 4.43). From Table 6.1 it can be seen that the Tvarh contribution from generation is small compared with the other components of the equation.

6.4 The generation figures are a national monthly summation of the Settlements figures given in Appendix 4. At this stage, the data in Table 6.1 may be subject to amendment, via accruals or any outstanding disputes.

6.5 The 'net reactive demands 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)	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sept-01	6 monthly Total
Generation Lead	-0.76	-0.92	-0.69	-0.66	-0.65	-0.58	-4.26
Generation Lag	1.26	1.04	1.31	1.41	1.20	1.27	7.50
Net Reactive Demand at GSPs	4.84	4.82	5.05	5.56	5.47	5.21	30.95
Net National Grid System	4.34	4.70	4.43	4.81	4.92	4.52	27.72

Table 6.1 - Net National Grid System Effect

6.6 The more detailed breakdown found in Table 6.2 can be described by the following equation:

$$\text{Generation Net Tvarh} = \text{Net Reactive Demand at GSPs} - \text{HV network shunt gain (BV}^2\text{)} + \text{HV network series loss (I}^2\text{X)} + \text{SGT series loss (I}^2\text{X}_t\text{)} - \text{Shunt capacitor gain} - \text{net SVC output} + \text{Shunt reactor loss}$$

6.7 The figures in Table 6.2 are estimates and provide an indication of the likely national reactive energy balance within the system.

6.8 Points to note when considering Table 6.2 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.

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Component (Tvarh)	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sept-01	6 month total
MSC	1.94	1.66	1.80	1.71	1.72	1.74	10.57
Shunt Reactor	-2.17	-2.38	-2.01	-2.10	-2.23	-1.89	-12.78
SVC generation	0.13	0.11	0.12	0.15	0.13	0.16	0.80
SVC absorption	-0.12	-0.19	-0.14	-0.15	-0.14	-0.14	-0.88
HV network shunt gain	9.05	9.30	8.85	9.13	8.90	8.74	53.97
HV network series losses	-2.54	-2.05	-2.53	-2.20	-1.84	-2.34	-13.50
SGT series losses	-1.95	-1.75	-1.66	-1.73	-1.62	-1.75	-10.46
Net NGC System Utilisation	4.34	4.70	4.43	4.81	4.92	4.52	27.72
Generation Lead	-0.76	-0.92	-0.69	-0.66	-0.65	-0.58	-4.26
Generation Lag	1.26	1.04	1.31	1.41	1.20	1.27	7.50
Net Demand at GSPs	4.84	4.82	5.05	5.56	5.47	5.21	30.95

Table 6.2 - Indicative breakdown of Net National Grid System Effect

7 Exceptional Reactive Power Service Requirements

- 7.1 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.
- 7.2 During the period 1 April 2001 – 30 September 2001 no such services were required by National Grid for the provision of voltage support.

Appendix 1

BM Units position at 1 October 2001

North

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

Midlands

	Genset	Contract		Genset	Contract		Genset	Contract
72	CORB_01Z	Market 5	81	PETEM01Z	Market 8	90	SIZB_01Z	Market 7
73	DERW_01Z	Market 7	82	RATS_01Z	Market 7	91	SIZB_02Z	Market 7
74	DRKPS09Z	DPM	83	RATS_02Z	Market 7	92	SIZEA01Z	DPM
75	DRKPS10Z	DPM	84	RATS_03Z	Market 7	93	SIZEA02Z	DPM
76	DRKPS12Z	DPM	85	RATS_04Z	Market 7	94	SUTB_01Z	DPM
77	IRNPS01Z	Market 7	86	RUGPS06Z	Market 8	95	WBUPS01Z	Market 8
78	IRNPS02Z	Market 7	87	RUGPS07Z	Market 8	96	WBUPS02Z	Market 8
79	KLYNA01Z	Market 8	88	RUGPS06G	DPM	97	WBUPS03Z	Market 8
80	LBAR_01Z	Market 8	89	RUGPS07G	DPM	98	WBUPS04Z	Market 8

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South

	Genset	Contract		Genset	Contract		Genset	Contract
99	ABTHB07Z	Market 7	119	DIDCB06Z	Market 7	139	HINB_07Z	DPM
100	ABTHB08Z	Market 7	120	DIDC_01G	DPM	140	HINB_08Z	DPM
101	ABTHB09Z	Market 7	121	DIDC_02G	DPM	141	KINO_01Z	Market 7
102	AESB_01Z	DPM	122	DIDC_03G	DPM	142	KINO_02Z	Market 7
103	BARK_02Z	DPM	123	DIDC_04G	DPM	143	KINO_03Z	Market 7
104	BARK_11Z	DPM	124	DNGB_21Z	Market 7	144	LITTD01Z	Market 8
105	BRWE_01Z	DPM	125	DNGB_22Z	Market 7	145	LITTD01G	DPM
106	BRWE_02Z	DPM	126	DUNGA01Z	DPM	146	LITTD02G	DPM
107	BRWE_03Z	DPM	127	DUNGA02Z	DPM	147	MEDP_01Z	Market 7
108	BRWE_04Z	DPM	128	DUNGA03Z	DPM	148	OLDS_01Z	DPM
109	BRWE_05Z	DPM	129	DUNGA04Z	DPM	149	OLDS_02Z	DPM
110	BRWE_06Z	DPM	130	EECL_01Z	DPM	150	RYHPS01Z	Market 7
111	COWE_01Z	DPM	131	FAWL_03Z	Market 5	151	SEAB_01Z	DPM
112	COWE_02Z	DPM	132	FAWN_01Z	DPM	152	SEAB_02Z	DPM
113	DAMC_01Z	DPM	133	FIFO_13Z	DPM	153	SHOS_01Z	DPM
114	DIDC_01Z	Market 8	134	FIFO_14Z	DPM	154	TAYL_02Z	Market 7
115	DIDC_02Z	DPM	135	FIFO_15Z	DPM	155	TAYL_03Z	Market 7
116	DIDC_03Z	DPM	136	GRAI_01Z	Market 7	156	TILBB08Z	DPM
117	DIDC_04Z	Market 8	137	GRAI_04Z	Market 7	157	TILBB09Z	DPM
118	DIDCB05Z	Market 7	138	GYAR_01Z	DPM	158	TILBB10Z	DPM

Note : Market 5 refers to those contracts commencing 1 April 2000

Market 7 refers to those contracts commencing 1 April 2001

Market 8 refers to those contracts commencing 1 October 2001

Eligible BM Units are those of reactive capability, leading or lagging greater than 15 Mvar at the commercial boundary, and the further stipulations layed out in CUSC Schedule 3. There are to date, no market contracts for Enhanced Capability.

Appendix 2 - Reactive Market Agreement status at 1 October 2001

Contracts Continuing on 1 October 2001			
	Company	Genset ID	Contract Expiry Date
1	Innogy	ABTHB07Z	31/03/02
2	Innogy	ABTHB08Z	31/03/02
3	Innogy	ABTHB09Z	31/03/02
4	PowerGen	CNQPS01Z	31/03/02
5	PowerGen	CNQPS02Z	31/03/02
6	PowerGen	CNQPS03Z	31/03/02
7	PowerGen	CNQPS04Z	31/03/02
8	Derwent Power	DERW_01Z	31/03/02
9	Innogy	DIDCB05Z	31/03/02
10	Innogy	DIDCB06Z	31/03/02
11	AES Drax Power	DRAXX01Z	31/03/02
12	AES Drax Power	DRAXX02Z	31/03/02
13	AES Drax Power	DRAXX03Z	31/03/02
14	AES Drax Power	DRAXX04Z	31/03/02
15	AES Drax Power	DRAXX05Z	31/03/02
16	AES Drax Power	DRAXX06Z	31/03/02
17	British Energy	DNGB_21Z	31/03/02
18	British Energy	DNGB_22Z	31/03/02
19	PowerGen	GRAI_01Z	31/03/02
20	PowerGen	GRAI_04Z	31/03/02
21	British Energy	HEYM101Z	31/03/02
22	British Energy	HEYM102Z	31/03/02
23	British Energy	HEYM207Z	31/03/02
24	British Energy	HEYM208Z	31/03/02
25	British Energy	HRTL_01Z	31/03/02
26	British Energy	HRTL_02Z	31/03/02
27	TXU	IRNPS01Z	31/03/02
28	TXU	IRNPS02Z	31/03/02
29	Keadby Generation	KEAD_01Z	31/03/02
30	PowerGen	KILLP01Z	31/03/02
31	PowerGen	KINO_01Z	31/03/02
32	PowerGen	KINO_02Z	31/03/02
33	PowerGen	KINO_03Z	31/03/02
34	Medway Power	MEDP_01Z	31/03/02
35	PowerGen	RATS_01Z	31/03/02
36	PowerGen	RATS_02Z	31/03/02
37	PowerGen	RATS_03Z	31/03/02
38	PowerGen	RATS_04Z	31/03/02
39	Scottish Power	RYHPS01Z	31/03/02
40	British Energy	SIZB_01Z	31/03/02

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41	British Energy	SIZB_02Z	31/03/02
42	PowerGen	TAYL_02Z	31/03/02
43	PowerGen	TAYL_03Z	31/03/02
44	Corby	CORB_01Z	31/03/03
45	Innogy	FAWL_03Z	31/03/02

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New Contracts Commencing on 1 October 2001			
	Company	Genset ID	Contract Expiry Date
1	Deeside Power Development Company	DEEP_01Z	30/09/02
2	Innogy plc	DIDC_01Z	30/09/02
3	Innogy plc	DIDC_04Z	30/09/02
4	Innogy plc	LBAR_01Z	30/09/02
5	Innogy plc	LITTD01Z	30/09/02
6	Powergen UK plc	KILLP02Z	30/09/02
7	Anglian Power	KLYNA01Z	30/09/02
8	Peterborough Power Ltd	PETEM01Z	30/09/02
9	Lakeland Power Ltd	ROOS_1Z	30/09/02
10	Rugeley Power Ltd	RUGPS06Z	30/09/02
11	Rugeley Power Ltd	RUGPS07Z	30/09/02
12	TXU Europe West Burton Ltd	WBUPS01Z	30/09/02
13	TXU Europe West Burton Ltd	WBUPS02Z	30/09/02
14	TXU Europe West Burton Ltd	WBUPS03Z	30/09/02
15	TXU Europe West Burton Ltd	WBUPS04Z	30/09/02

**Appendix 3 - Successful tender details
for contracts commencing 1 October 2001**

Company Name: Deeside Power Development Company			Station Name: Deeside			
Genset ID: DEEP_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: -234	Q2Lead: -175	Q1Lead: -50	Q1Lag: +75	Q2:Lag +175	Q3:Lag +232
Available Capability Prices (£/Mvar/h)	CA3Lead: 0.04	CA2Lead: 0.02	CA1Lead: 0.01	CA1Lag: 0.015	CA2Lag: 0.025	CA3Lag: 0.05
Synchronised Capability Prices (£/Mvar/h)	CS3Lead: 0.000	CS2Lead: 0.000	CS1Lead: 0.000	CS1Lag: 0.000	CS2Lag: 0.000	CS3Lag: 0.000
Utilisation Prices (£/Mvarh)	CU3Lead: 1.55	CU2Lead: 1.15	CU1Lead: 1.00	CU1Lag: 1.00	CU2Lag: 1.15	CU3Lag: 1.55

Company Name: Innogy plc			Station Name: Didcot			
Genset ID: DIDC_01Z			Contract Period: 12 months			
Nominated GRC: 490 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: -142	Q2Lead: -100	Q1Lead: -50	Q1Lag: 75	Q2:Lag 150	Q3:Lag 201
Available Capability Prices (£/Mvar/h)	CA3Lead: 0.050	CA2Lead: 0.025	CA1Lead: 0.013	CA1Lag: 0.058	CA2Lag: 0.058	CA3Lag: 0.353
Synchronised Capability Prices (£/Mvar/h)	CS3Lead: 0.000	CS2Lead: 0.000	CS1Lead: 0.000	CS1Lag: 0.000	CS2Lag: 0.000	CS3Lag: 0.000
Utilisation Prices (£/Mvarh)	CU3Lead: 1.800	CU2Lead: 0.953	CU1Lead: 0.450	CU1Lag: 0.450	CU2Lag: 0.953	CU3Lag: 1.800

Company Name: Innogy plc			Station Name: Didcot			
Genset ID: DIDC_04Z			Contract Period: 12 months			
Nominated GRC: 490 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: -142	Q2Lead: -100	Q1Lead: -50	Q1Lag: 75	Q2:Lag 150	Q3:Lag 201
Available Capability Prices (£/Mvar/h)	CA3Lead: 0.050	CA2Lead: 0.025	CA1Lead: 0.013	CA1Lag: 0.063	CA2Lag: 0.063	CA3Lag: 0.383
Synchronised Capability Prices (£/Mvar/h)	CS3Lead: 0.000	CS2Lead: 0.000	CS1Lead: 0.000	CS1Lag: 0.000	CS2Lag: 0.000	CS3Lag: 0.000
Utilisation Prices (£/Mvarh)	CU3Lead: 1.800	CU2Lead: 0.953	CU1Lead: 0.450	CU1Lag: 0.450	CU2Lag: 0.953	CU3Lag: 1.800

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Company Name: Innogy plc			Station Name: Little Barford			
Genset ID: LBAR_01Z			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
	-341	-175	-50	100	215	298
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.034	0.016	0.003	0.028	0.096	0.168
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.035	0.018	0.003	0.033	0.106	0.173
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.777	0.536	0.464	0.464	0.536	1.777

Company Name: Innogy plc			Station Name: Littlebrook			
Genset ID: LITTD01Z			Contract Period: 12 months			
Nominated GRC: 685 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
	-297	-175	-100	50	140	198
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.008	0.004	0.001	0.003	0.008	0.174
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.240	0.120	0.040	0.240	0.400	1.04
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.725	0.800	0.300	0.300	0.800	1.725

Company Name: Powergen UK plc			Station Name: Killingholme			
Genset ID: KILLP02Z			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	50	75	180	211
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.020	0.010	0.005	0.025	0.050	0.100
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.020	0.010	0.005	0.100	0.200	0.250
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.500	0.650	0.300	0.300	0.650	1.500

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Company Name: Anglian Power Generators Ltd			Station Name: Kings Lynn			
Genset ID: KLYNA01Z			Contract Period: 12 months			
Nominated GRC: 357 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
	119	95	50	50	175	205
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.00	0.00	0.00	0.00	0.00	0.00
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.11	0.07	0.025	0.025	0.07	0.11
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.2	0.9	0.8	0.8	0.9	1.2

Company Name: Peterborough Power Ltd			Station Name: Peterborough Power			
Genset ID: PETEM01Z			Contract Period: 12 months			
Nominated GRC: 413 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
	213	165	50	75	135	159
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.00	0.00	0.00	0.00	0.00	0.00
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.05	0.03	0.01	0.03	0.05	0.09
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.0	0.8	0.6	0.6	0.8	1.2

Company Name: Lakeland Power Ltd			Station Name: Roosecote			
Genset ID: ROOS_01Z			Contract Period: 12 months			
Nominated GRC: 229 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
	101	90	50	50	90	112
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.00	0.00	0.00	0.00	0.00	0.00
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.1	0.03	0.01	0.04	0.05	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1	0.5	0.3	0.3	0.5	1

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Company Name: Rugeley Power Ltd			Station Name: Rugeley			
Genset ID: RUGPS06Z			Contract Period: 12 months			
Nominated GRC: 498 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
	143	115	50	75	155	194
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.008	0.005	0.003	0.06	0.08	0.12
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.008	0.005	0.003	0.06	0.08	0.12
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1	0.6	0.4	0.4	0.6	1.2

Company Name: Rugeley Power Ltd			Station Name: Rugeley			
Genset ID: RUGPS07Z			Contract Period: 12 months			
Nominated GRC: 498 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
	142	115	50	75	155	195
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.008	0.005	0.003	0.06	0.08	0.12
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.008	0.005	0.003	0.06	0.08	0.12
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1	0.6	0.4	0.4	0.6	1.2

Company Name: TXU Europe West Burton Ltd			Station Name: West Burton			
Genset ID: WBUPS01Z			Contract Period: 12 months			
Nominated GRC: 483 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
	179	140	50	75	170	213
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.016	0.01	0.007	0.15	0.17	0.22
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.015	0.009	0.006	0.12	0.15	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.2	0.45	0.3	0.3	0.45	1.2

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Company Name: TXU West Burton Ltd			Station Name: West Burton			
Genset ID: WBUPS02Z			Contract Period: 12 months			
Nominated GRC: 503 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
	182	145	50	75	140	177
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.017	0.011	0.008	0.16	0.18	0.22
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.015	0.009	0.006	0.12	0.15	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.2	0.45	0.3	0.3	0.45	1.2

Company Name: TXU West Burton Ltd			Station Name: West Burton			
Genset ID: WBUPS03Z			Contract Period: 12 months			
Nominated GRC: 503 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
	182	145	50	75	140	177
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.013	0.007	0.004	0.13	0.15	0.19
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.018	0.011	0.009	0.15	0.18	0.22
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.2	0.45	0.3	0.3	0.45	1.2

Company Name: TXU West Burton Ltd			Station Name: West Burton			
Genset ID: WBUPS04Z			Contract Period: 12 months			
Nominated GRC: 483 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
	180	145	50	75	170	212
Available Capability Prices (£/Mvar/h)	CA3Lead:	CA2Lead:	CA1Lead:	CA1Lag:	CA2Lag:	CA3Lag:
	0.018	0.012	0.009	0.17	0.19	0.22
Synchronised Capability Prices (£/Mvar/h)	CS3Lead:	CS2Lead:	CS1Lead:	CS1Lag:	CS2Lag:	CS3Lag:
	0.013	0.007	0.004	0.1	0.12	0.2
Utilisation Prices (£/Mvarh)	CU3Lead:	CU2Lead:	CU1Lead:	CU1Lag:	CU2Lag:	CU3Lag:
	1.2	0.45	0.3	0.3	0.45	1.2

Appendix 4

**Reactive Power Generation Utilisation Volumes by Unit
April 2001 to September 2001**

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Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Apr-01		May-01		Jun-01		Jul-01		Aug-01		Sept-01		Lead	Lag
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag		
ABTHB07Z	Market	0.00	0.00	0.00	0.00	0.00	0.00	2407.60	2780.40	5396.20	3489.90	3731.05	4780.70	11534.85	11051.00
ABTHB08Z	Market	5804.00	4757.20	7689.40	2986.60	4062.95	6129.50	4829.60	7522.10	3444.35	3223.70	4160.00	5678.85	29990.30	30297.95
ABTHB09Z	Market	2232.75	3441.05	6301.55	4911.10	4135.80	4268.15	5196.55	10132.45	4907.90	6093.25	2876.90	8304.65	25651.45	37150.65
AESB_01Z	DPM	1243.25	1076.95	3902.47	22.43	70.52	274.23	945.49	1503.48	110.88	3677.33	1375.89	1518.23	7648.50	8072.65
BARK_02Z	DPM	18872.30	7573.70	18965.65	7366.05	15230.30	16233.40	13644.95	23580.10	17103.85	8500.75	24077.35	15177.15	107894.40	78431.15
BARK_11Z	DPM	14834.65	5230.85	17787.05	7382.35	13966.25	14632.60	12326.55	19783.65	20157.75	12580.30	20110.60	14039.70	99182.85	73649.45
BRGG_01Z	DPM	804.90	2908.65	0.00	11075.80	210.50	8942.00	581.50	5477.75	79.60	995.95	407.40	3895.85	2083.90	33296.00
BRWE_01Z	DPM	823.53	301.60	1037.05	281.62	1418.87	137.37	516.08	413.71	856.75	211.94	433.21	185.78	5085.49	1532.02
BRWE_02Z	DPM	46.68	1386.75	226.72	458.74	1001.54	349.14	444.94	1121.62	861.67	471.46	327.16	490.74	2908.71	4278.45
BRWE_03Z	DPM	467.66	206.00	962.61	509.68	1749.12	43.67	914.30	422.42	1220.43	324.37	209.53	230.49	5523.65	1736.63
BRWE_04Z	DPM	528.15	301.13	1420.73	149.65	940.93	107.53	734.41	431.64	1853.22	151.90	867.44	342.96	6344.88	1484.81
BRWE_05Z	DPM	353.34	522.90	1043.61	341.60	1025.25	374.86	276.12	1001.88	601.46	363.13	801.73	413.63	4101.51	3018.00
BRWE_06Z	DPM	129.28	1299.22	926.28	786.16	393.48	590.47	942.94	1081.85	1434.92	506.86	212.96	1789.89	4039.86	6054.45
CDCL_01Z	DPM	5588.55	7523.73	4786.20	14858.10	4179.78	22654.26	6464.88	12886.83	7297.29	19830.51	4876.56	24328.62	33193.26	102082.05
CNQPS01Z	Market	11185.52	5777.79	20239.44	2899.01	21203.97	2404.52	8734.76	12477.53	2406.35	10567.43	2261.20	6166.31	66031.24	40292.59
CNQPS02Z	Market	12117.11	4993.38	19733.55	3059.66	20788.30	2838.84	2983.62	2381.34	3499.65	12828.63	4256.09	9097.77	63378.32	35199.62
CNQPS03Z	Market	12034.01	7083.41	8852.19	3919.73	127.26	0.00	0.00	0.00	940.15	4252.37	2303.97	9668.93	24257.58	24924.44
CNQPS04Z	Market	682.42	0.00	9214.32	506.84	20537.43	3598.50	7999.24	11187.54	2394.50	13961.43	2038.87	10468.52	42866.78	39722.83
CORB_01Z	Market	4859.42	8004.31	5104.75	4966.92	768.65	4851.34	1137.89	8184.89	640.22	8490.62	4507.06	6532.20	17017.99	41030.28
COTPS01Z	DPM	4069.53	10156.68	4971.60	4835.34	2270.16	5653.71	1810.71	11571.84	1507.32	12464.55	987.30	23550.03	15616.62	68232.15
COTPS02Z	DPM	3125.25	9286.65	11058.84	10557.72	4348.44	16931.16	2525.13	14288.58	2157.30	5959.26	2906.82	21984.12	26121.78	79007.49
COTPS03Z	DPM	5426.73	6112.80	6468.39	7027.74	3342.87	7465.50	2990.79	14195.97	2602.89	13657.05	1516.32	22896.00	22347.99	71355.06
COTPS04Z	DPM	0.00	0.00	0.00	0.00	3315.69	7937.82	1568.52	7116.30	488.25	6077.43	676.53	12865.14	6048.99	33996.69
COWE_01Z	DPM	0.37	62.58	0.14	22.59	0.03	66.84	0.03	20.71	0.00	13.35	0.00	0.00	0.57	186.07
COWE_02Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAMC_01Z	DPM	21399.53	5493.56	15311.03	6056.10	8953.07	8081.51	11583.54	12872.12	27035.78	13961.30	25605.72	9619.56	109888.67	56084.15
DEEP_01Z	DPM	19460.65	5242.65	39218.55	2181.30	26857.25	6970.05	10373.05	14453.10	5335.85	24386.35	3473.20	25144.75	104718.55	78378.20

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Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Apr-01		May-01		Jun-01		Jul-01		Aug-01		Sept-01		Lead	Lag
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag		
DERW_01Z	Market	1561.41	5192.43	2370.45	4014.13	1437.40	6628.84	5545.17	1975.90	2579.79	4587.63	6900.45	1167.70	20394.67	23566.63
DIDC_01G	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIDC_01Z	Market	4066.90	3185.65	5274.55	2048.75	1662.15	2566.45	0.00	0.00	0.00	0.00	0.00	0.00	11003.60	7800.85
DIDC_02G	DPM	0.00	0.00	0.00	0.00	0.00	0.00	838.66	0.45	0.00	0.00	0.00	0.00	838.66	0.45
DIDC_02Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	783.65	398.20	1817.25	2271.65	2417.20	2116.50	5018.10	4786.35
DIDC_03G	DPM	0.00	0.00	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.77
DIDC_03Z	DPM	6596.55	4000.40	8232.75	1426.15	2533.55	8018.38	5169.70	5885.10	5003.00	1980.90	9407.65	8094.90	36943.20	29405.83
DIDC_04G	DPM	0.00	0.00	0.00	0.00	0.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70
DIDC_04Z	Market	7712.81	5015.10	7131.25	5896.80	3655.40	6668.95	1411.05	11998.30	1816.00	2923.15	5828.85	8679.75	27555.36	41182.05
DIDCB05Z	Market	15822.10	6009.10	21268.70	2912.40	6097.70	7552.40	11381.60	21402.20	23800.30	13330.70	19505.05	12773.70	97875.45	63980.50
DIDCB06Z	Market	19646.40	7609.60	32584.70	3286.75	20037.60	10366.65	14345.95	17362.95	1993.65	2060.25	18594.95	13370.95	107203.25	54057.15
DINO_01Z	DPM	660.65	0.00	4333.90	14.05	5729.55	353.60	9738.70	950.20	9194.95	1534.30	5418.25	809.60	35076.00	3661.75
DINO_02Z	DPM	5508.50	200.65	7614.30	111.75	11752.80	670.65	12272.70	466.75	9359.20	1050.50	7831.10	2012.95	54338.60	4513.25
DINO_03Z	DPM	12282.25	460.85	10457.90	410.00	9119.90	405.90	9044.35	150.05	8318.55	325.40	6563.70	393.50	55786.65	2145.70
DINO_04Z	DPM	9940.70	803.25	4731.60	326.20	10179.65	1206.55	2503.25	655.55	5646.60	983.05	3903.90	3250.75	36905.70	7225.35
DINO_05Z	DPM	8182.00	334.80	5265.30	32.35	0.00	0.00	94.40	0.00	2124.85	100.25	2037.15	267.35	17703.70	734.75
DINO_06Z	DPM	7357.80	444.15	12995.15	714.15	3257.55	299.00	3541.20	184.25	3071.80	184.95	2884.60	277.30	33108.10	2103.80
DNGB_21Z	Market	20320.70	1495.95	21317.95	1067.75	28703.20	1556.65	20829.90	3765.40	13214.75	11646.70	0.00	0.00	104386.50	19532.45
DNGB_22Z	Market	20393.70	1463.85	30674.85	1313.25	24934.60	1553.60	8759.05	2250.25	22576.50	6336.80	13863.15	2186.90	121201.85	15104.65
DRAXX01Z	Market	3263.45	37732.20	11134.00	37541.55	0.00	0.00	0.00	0.00	758.60	235.60	3075.25	7799.65	18231.30	83309.00
DRAXX02Z	Market	4487.90	41533.25	2852.60	36141.85	5195.15	49404.20	3069.70	41221.95	7020.50	35678.60	1560.10	37102.35	24185.95	241082.20
DRAXX03Z	Market	14466.70	8152.22	14416.35	3264.10	22575.25	2693.40	19709.70	3642.35	12019.80	10217.40	10527.90	7598.40	93715.70	35567.87
DRAXX04Z	Market	9047.30	38824.22	11348.20	40185.30	8834.85	34328.15	6733.15	33210.05	2450.75	25546.60	6237.50	35617.00	44651.75	207711.32
DRAXX05Z	Market	3957.35	39422.30	4662.20	42216.10	4708.10	40249.00	6435.20	35217.75	3580.20	17774.20	1969.65	29619.85	25312.70	204499.20
DRAXX06Z	Market	1691.20	19051.45	2068.35	3025.10	1909.80	34339.40	5290.80	35491.15	7740.00	38865.05	4575.65	37716.25	23275.80	168488.40
DRAXX09G	DPM	0.00	13.19	0.00	0.00	0.00	24.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.47
DRAXX10G	DPM	0.00	1.73	0.00	0.00	0.00	38.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.49

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		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag		
DRAXX12G	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DRKPS09Z	DPM	4184.18	4779.00	1399.73	3567.38	1164.23	3358.73	1433.93	4763.25	3701.25	4096.43	2591.85	5198.55	14475.17	25763.34
DRKPS10Z	DPM	2155.50	3618.15	2829.15	3870.98	1513.88	5111.55	1627.43	6650.55	2034.60	1253.63	2434.88	5123.33	12595.44	25628.19
DRKPS12Z	DPM	1402.65	5378.78	308.48	860.18	0.00	0.00	2484.98	10035.90	1573.50	7666.73	1551.60	12147.90	7321.21	36089.49
DUNGA01Z	DPM	6118.40	869.80	1106.45	1014.20	0.00	0.00	0.00	0.00	0.00	0.00	1545.40	478.38	8770.25	2362.38
DUNGA02Z	DPM	3636.25	2530.75	413.98	2370.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4050.23	4901.63
DUNGA03Z	DPM	8570.10	849.00	0.00	0.00	1484.35	369.78	2848.10	5176.00	652.08	5548.50	3611.18	875.65	17165.81	12818.93
DUNGA04Z	DPM	10533.38	388.43	0.00	0.00	1523.00	130.18	2840.08	2675.78	1487.95	2918.80	5805.60	251.08	22190.01	6364.27
EGGPS01Z	DPM	3899.90	26097.85	4760.40	16647.40	2532.10	24755.30	3179.60	21442.45	18101.95	20017.50	3629.15	22275.90	36103.10	131236.40
EGGPS02Z	DPM	1983.80	17859.90	2502.15	18178.30	12531.65	18625.75	1782.90	15762.70	3783.90	14651.90	0.00	0.00	22584.40	85078.55
EGGPS03Z	DPM	2705.20	20625.65	4277.45	16721.55	5170.70	26758.45	4994.15	19717.10	0.00	0.00	1280.80	6506.15	18428.30	90328.90
EGGPS04Z	DPM	2260.55	19447.00	1465.05	10701.85	0.00	0.00	0.00	0.00	1107.35	7992.10	2793.85	17013.55	7626.80	55154.50
FAWL_03Z	Market	0.00	0.00	0.00	0.00	181.92	616.11	30.90	915.10	496.30	1521.00	74.50	33.85	783.62	3086.06
FAWN_01Z	Market	0.00	0.00	0.00	0.00	0.00	21.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.12
FELL_01Z	DPM	0.00	0.00	730.74	617.71	2438.90	1913.90	1987.84	2344.27	2716.60	402.80	1668.50	1652.49	9542.58	6931.17
FERR_01Z	DPM	3526.43	24158.55	1678.73	11480.25	1920.90	17869.58	2328.98	15208.65	1450.50	5581.43	3118.13	10776.53	14023.67	85074.99
FERR_02Z	DPM	323.40	11064.23	1951.20	13026.23	941.03	11766.30	1271.70	8584.20	285.75	1968.98	2895.30	9501.83	7668.38	55911.77
FERR_03Z	DPM	100.73	3023.93	2450.25	3.98	0.00	0.00	2201.18	7650.00	3647.48	16519.28	1914.00	9036.53	10313.64	36233.72
FERR_04Z	DPM	4309.43	26072.18	20527.50	16110.23	663.30	11791.58	575.78	6870.45	1629.68	13388.63	1282.80	7606.50	28988.49	81839.57
FFES_01Z	DPM	277.41	702.28	527.66	414.11	904.13	472.06	584.72	359.71	421.98	685.68	48.88	146.85	2764.78	2780.69
FFES_02Z	DPM	36.74	1056.39	149.36	1153.37	96.77	1311.58	238.70	1271.19	108.06	1047.74	2.62	259.00	632.25	6099.27
FFES_03Z	DPM	1246.38	106.64	966.99	26.27	612.00	22.61	794.40	39.65	1034.89	42.65	1247.12	405.86	5901.78	643.68
FFES_04Z	DPM	2042.55	128.12	719.84	31.63	586.67	65.98	922.76	35.60	986.92	45.25	839.42	44.12	6098.16	350.70
FIDL_01Z	DPM	7629.30	764.33	20368.13	5648.85	7595.55	4103.85	5386.65	1610.25	4525.50	3756.98	5335.73	2137.35	50840.86	18021.61
FIDL_02Z	DPM	5664.83	2785.20	0.00	0.00	26.10	24.45	7976.55	1621.28	5592.98	5559.38	4033.28	1980.90	23293.74	11971.21
FIDL_03Z	DPM	7447.35	219.00	10283.25	744.98	10336.73	257.33	0.00	0.00	0.00	0.00	0.00	0.00	28067.33	1221.31
FIDL_04Z	DPM	12546.38	4039.28	23521.58	2678.78	10120.65	5492.10	8458.43	3609.38	6338.93	6900.68	7729.28	2400.53	68715.25	25120.75

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		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag		
FIFO_13Z	DPM	3193.20	900.50	1802.40	1190.50	750.90	853.20	1073.60	986.90	2219.60	881.50	367.10	472.10	9406.80	5284.70
FIFO_14Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FIFO_15Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRAI_01Z	Market	68.04	64.08	663.93	415.26	372.51	1438.56	0.00	0.00	0.00	0.00	0.00	0.00	1104.48	1917.90
GRAI_04Z	Market	319.23	30.78	0.00	0.00	339.84	72.63	74.97	15.84	61.47	692.28	146.79	40.50	942.30	852.03
HEYM101Z	Market	1913.05	52779.30	3590.25	37982.40	3786.45	49403.55	2558.95	53701.50	2161.85	43428.35	4.60	0.00	14015.15	237295.10
HEYM102Z	Market	2145.20	33647.40	6303.45	43253.30	4634.55	63517.55	2014.10	41866.00	3650.35	51583.55	2081.25	58250.05	20828.90	292117.85
HEYM207Z	Market	1703.60	44893.10	4775.00	38492.55	4377.25	43765.20	3920.85	49127.40	4280.50	40964.35	1457.40	33606.60	20514.60	250849.20
HEYM208Z	Market	2893.75	31569.60	894.45	11308.20	388.65	2803.85	2809.55	32274.20	1945.95	21364.95	1738.70	34654.70	10671.05	133975.50
HINB_07Z	Market	10254.80	15464.30	2843.40	28684.85	10261.50	2070.55	4123.90	9871.90	10792.60	3253.45	13559.95	2802.80	51836.15	62147.85
HINB_08Z	Market	39919.65	1556.50	62841.00	3166.55	42558.90	4220.15	41169.50	9050.95	34116.55	10457.35	33167.65	7843.40	253773.25	36294.90
HMRPS01Z	DPM	578.37	1740.43	398.18	876.70	494.18	634.24	230.69	368.99	889.63	966.18	530.23	1231.45	3121.28	5817.99
HMRPS02Z	DPM	940.04	1036.08	401.33	525.23	750.39	610.74	166.21	219.16	3962.20	76.41	3765.79	31.10	9985.96	2498.72
HMRPS03Z	DPM	615.46	870.39	51.27	218.49	0.00	0.00	280.58	58.24	966.54	385.28	1113.65	315.63	3027.50	1848.03
HMRPS04Z	DPM	3234.30	201.97	987.85	73.55	2440.25	229.11	3079.24	135.79	1841.33	94.70	639.73	108.65	12222.70	843.77
HMRPS05Z	DPM	23727.46	232.77	13951.22	62.30	17263.85	261.45	26528.66	293.70	5888.07	38.03	1703.63	360.22	89062.89	1248.47
HRTL_01Z	Market	36.65	21290.85	329.90	5392.40	2153.60	48777.70	1932.85	58155.80	542.45	64557.00	356.85	44616.95	5352.30	242790.70
HRTL_02Z	Market	1020.70	64143.70	1623.15	69859.65	1289.30	50356.05	1468.55	35722.10	539.85	62788.10	250.40	45497.10	6191.95	328366.70
IRNPS01Z	Market	7359.05	1984.50	5286.65	1610.90	0.00	0.00	0.00	0.00	1299.00	1663.10	3986.95	4759.40	17931.65	10017.90
IRNPS02Z	Market	3295.80	676.75	6170.95	3371.70	4747.60	1867.90	1709.25	2898.35	0.00	0.00	51.80	165.75	15975.40	8980.45
KEAD_01Z	Market	4528.10	34769.95	6594.40	26308.10	3103.80	44821.50	2.80	53.25	7895.20	29866.10	2581.45	38145.20	24705.75	173964.10
KILLP01Z	Market	0.00	1713.65	10106.40	16647.70	1596.85	17363.30	2052.85	21441.35	1395.20	25527.75	1841.95	25144.90	16993.25	107838.65
KILLP02Z	DPM	7499.10	15742.25	881.00	5283.00	172.10	2840.00	2592.85	25313.20	2065.75	15142.10	2047.80	24448.40	15258.60	88768.95
KILNS01Z	DPM	5060.15	23027.90	3994.55	5015.15	2946.95	26565.00	3886.20	24648.25	1785.75	22811.60	1978.75	21888.55	19652.35	123956.45
KINO_01Z	Market	9787.95	1486.53	11839.68	1905.57	6564.78	5724.90	8818.92	8270.28	11682.81	3805.29	8287.65	2977.11	56981.79	24169.68
KINO_02Z	Market	1700.55	456.84	0.00	0.00	0.00	0.00	0.00	0.00	9041.13	2318.22	5277.15	4150.98	16018.83	6926.04
KINO_03Z	Market	8818.11	2524.41	10693.44	4597.65	8347.68	6350.67	70853.13	7392.60	6966.45	9009.54	6131.16	6504.66	111809.97	36379.53

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		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag		
KINO_04Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KLYNA01Z	DPM	5335.00	7294.00	8813.00	7220.00	2475.00	4107.00	4034.00	10739.00	6893.00	8079.00	928.00	1232.00	28478.00	38671.00
LBAR_01Z	Market	2705.65	26741.55	4511.15	15037.75	1616.60	47431.45	2726.40	54328.65	3645.45	34126.00	1603.85	1142.00	16809.10	178807.40
LITTD01G	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LITTD01Z	DPM	727.45	2143.85	191.30	769.65	86.25	258.45	1092.65	6566.25	0.00	880.55	200.70	748.15	2298.35	11366.90
LITTD02G	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEDP_01Z	Market	24412.55	4554.37	27759.29	6621.71	28935.42	6896.42	23248.55	12890.64	2144.40	1059.10	1677.00	423.80	108177.21	32446.04
OLDS_01Z	DPM	2200.73	15400.90	2911.00	17392.45	1079.83	119.15	3020.53	4982.60	5851.45	9633.63	4639.20	9864.68	19702.74	57393.41
OLDS_02Z	DPM	2522.20	9976.10	3610.08	12226.50	4454.35	16621.25	6947.83	14658.28	5465.83	6193.13	4002.35	10387.45	27002.64	70062.71
PETEM01Z	DPM	6365.52	5059.49	9229.10	4050.24	3313.92	6983.02	2689.90	5820.24	5391.12	4853.18	5134.27	11146.01	32123.83	37912.18
RATS_01Z	Market	3086.91	7571.25	3002.04	7485.21	978.03	17842.23	1596.51	18702.36	6428.16	11851.83	2171.52	14027.67	17263.17	77480.55
RATS_02Z	Market	2598.48	21663.99	7681.77	9023.31	5756.76	19937.16	1760.67	14072.04	7361.46	3902.94	629.64	9209.79	25788.78	77809.23
RATS_03Z	Market	1861.56	14736.06	1836.99	6608.97	608.49	9539.64	1272.51	11963.07	1489.95	9355.23	1093.23	13156.11	8162.73	65359.08
RATS_04Z	Market	1553.67	14545.35	1202.04	7067.34	2007.63	6796.80	633.06	6730.74	0.00	0.00	902.97	8285.58	6299.37	43425.81
ROCK_01Z	DPM	19157.04	14814.36	30874.10	6797.39	20834.96	9696.24	14038.92	8886.65	7499.39	11347.97	8403.35	8368.11	100807.76	59910.72
ROOS_01Z	DPM	1534.86	3860.74	545.45	4986.22	353.85	4413.15	731.82	5501.73	2117.84	1584.20	0.00	0.00	5283.82	20346.04
RUGPS06G	DPM	0.00	39.65	0.05	4.50	0.00	30.35	0.00	0.00	0.00	21.40	0.00	0.00	0.05	95.90
RUGPS06Z	DPM	6577.65	10431.18	4234.45	8025.55	5254.65	11891.75	3274.90	11042.10	4121.50	9252.66	2056.50	4316.45	25519.65	54959.69
RUGPS07G	DPM	91.92	92.05	5.88	8.64	88.27	3.30	29.34	0.00	5.38	0.00	574.74	0.00	795.53	103.99
RUGPS07Z	DPM	5721.99	10527.24	10103.64	6764.37	6581.70	9958.74	8684.30	10789.60	10402.70	8314.00	6540.94	10522.30	48035.27	56876.25
RYHPS01Z	Market	18106.20	12511.13	20885.85	10260.95	15070.32	21140.73	16323.39	39562.70	21820.05	23440.86	24870.38	30494.75	117076.19	137411.12
SEAB_01Z	DPM	8946.18	5141.48	12333.20	3212.60	5234.49	8391.47	6193.13	10339.38	14597.82	5399.33	560.79	1766.75	47865.61	34251.01
SEAB_02Z	Market	13940.14	685.74	13981.49	3375.15	5282.16	2320.38	15436.33	6240.26	20040.75	2355.37	2230.31	1590.75	70911.18	16567.65
SHBA_01Z	Market	0.00	0.00	1414.40	411.30	6804.50	7741.40	6536.30	7932.60	6340.30	6346.90	5108.20	3605.30	26203.70	26037.50
SHBA_02Z	DPM	7626.90	6760.30	3227.50	2564.40	7300.10	6101.20	6432.50	5379.10	5710.30	6850.10	5727.00	4757.10	36024.30	32412.20
SIZB_01Z	Market	7557.00	11438.75	2708.30	1814.75	4250.75	10454.50	7783.25	17958.95	8500.15	12060.05	2628.55	6150.55	33428.00	59877.55
SIZB_02Z	Market	7956.20	11092.35	3380.75	1395.75	4604.05	9718.25	9143.85	11700.25	11122.45	8761.55	4751.65	4002.25	40958.95	46670.40

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Genset	Agreement	Monthly Mvarh												6 Month TOTAL	
		Apr-01		May-01		Jun-01		Jul-01		Aug-01		Sept-01		Lead	Lag
		Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag		
SIZEA01Z	DPM	5138.45	3231.25	5418.78	8091.05	3257.93	3841.83	1034.00	6503.53	2033.60	4131.93	3521.00	1980.50	20403.76	27780.09
SIZEA02Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	1384.53	1136.13	4183.70	4211.20	3034.00	1684.50	8602.23	7031.83
SUTB_01Z	Market	12339.68	11996.24	15558.08	15311.70	10530.68	28710.72	2739.02	16438.82	10621.26	20957.94	9490.91	23178.15	61279.63	116593.57
TAYL_02Z	Market	1.39	94.43	0.32	18.18	0.07	41.27	0.04	10.01	0.01	61.15	0.02	0.02	1.85	225.06
TAYL_03Z	Market	19.96	33.58	6.04	13.19	0.79	1.63	4.76	2.11	17.39	2.12	5.34	0.00	54.28	52.63
TESI_01Z	DPM	6063.80	16171.30	5290.20	20795.95	8161.25	15516.75	5865.35	20547.40	2253.75	3355.80	1908.60	14577.05	29542.95	90964.25
TESI_02Z	DPM	6126.30	17346.70	3821.70	17533.55	6896.55	14951.70	5838.95	18053.95	3849.90	11216.55	3642.90	18429.45	30176.30	97531.90
TILBB08Z	DPM	6905.04	4915.08	8843.68	2203.40	9255.68	5871.00	5707.32	9899.44	7417.20	10347.76	6118.60	7103.64	44247.52	40340.32
TILBB09Z	DPM	6042.28	9259.88	6381.80	5700.76	3407.48	7627.12	1243.32	3598.96	0.00	0.00	0.00	0.00	17074.88	26186.72
WBUPS01Z	DPM	1218.45	29010.10	885.10	27736.60	645.00	23799.75	0.00	0.00	0.00	0.00	932.55	20979.90	3681.10	101526.35
WBUPS02Z	DPM	2073.75	39402.25	5753.00	30823.05	1181.20	42698.45	1312.85	38174.60	189.45	5461.85	1950.00	37414.70	12460.25	193974.90
WBUPS03Z	DPM	1921.55	32367.75	2270.00	32838.00	1675.10	44224.65	1228.65	41343.45	879.60	27530.15	1949.00	30430.40	9923.90	208734.40
WBUPS04Z	DPM	3134.95	37267.95	3328.45	28795.50	1278.20	32370.55	856.85	30054.90	1059.70	28244.30	936.40	29275.10	10594.55	186008.30
WYLF_01Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5942.23	2722.30	5816.95	1196.15	11759.18	3918.45
WYLF_02Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13809.13	67.25	20299.80	188.48	34108.93	255.73
WYLF_03Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2759.48	329.95	24155.88	0.00	26915.36	329.95
WYLF_04Z	DPM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7585.30	0.00	13630.43	3570.38	21215.73	3570.38
Subtotal	DPM	390583.73	571775.75	435195.15	464602.02	311644.07	564147.38	286029.07	602383.98	336061.50	463033.85	323499.27	590309.82	2083012.79	3256252.80
Subtotal	Market	367256.77	695461.49	482723.91	583605.73	382526.99	753762.41	369546.24	811494.32	319579.60	739191.43	256933.41	678791.10	2178566.92	4262306.48
Total	Mvarh	757840.50	1267237.24	917919.06	1048207.75	694171.06	1317909.79	655575.31	1413878.30	655641.10	1202225.28	580432.68	1269100.92	4261579.71	7518559.28

Appendix 5

Tender Assessment Procedure

A5.1 Introduction

A5.1.1 National Grid assessed the eighth Reactive Power Market tender round using a similar process as that which applied to all previous tender rounds. 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.

A5.1.2 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.

A5.2 Core Analytical processing

A5.2.1 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.

A5.2.2 For each genset tendered for 2001/02, 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 representative days over the period 1997 to 2000 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 £1.33/ 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.

A5.2.3 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.

A5.3 Assessment Sensitivities

A5.3.1 The principal role of tender assessment is to quantify and evaluate consistently the many factors that National Grid and the 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.

A5.3.2 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.

A5.3.3 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?*

A5.3.4 All other criteria in CUSC Schedule 3, paragraph 3, are covered by this methodology.

A5.3.5 In all cases, National Grid continued to consider interaction with forecast transmission constraints. In all cases there were insignificant interactions with constraints identified.

A5.3.6 In all cases, National Grid considered possible interaction with National Grid planned investments. The commissioning in 2001/02 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 6

Contact Numbers

A6.1 Comments, suggestions and enquiries can be directed to:

**Sarah Peaceful or Paul Bagg
Contracts and Trading
National Grid**

on **024 7642 3963/3128**

A6.2 Further report information may be obtained by contacting:

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

A6.3 For any other information please visit the NGC website on the following address:

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

