



Market Operator Monthly Report

March 2014

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1 Executive Summary

This Single Electricity Market Operator's (SEMO) report covers the month of operation of February 2014 and is published in accordance with the Single Electricity Market (SEM) Committee decision and Clause 2.144 of the Trading and Settlement Code. Trading and Settlement Code

During the month of March 2014, Settlements had two late publications as per the Trading and Settlement code.

172 general queries were received in March 2014. During the same period 157 general queries were resolved.

There were four defaults by Participants during March 2014. The largest of these was a FMOC Initial invoice for €411.84, which was remedied the next working day.

Formal queries continue to be answered well within the timelines stipulated in the Trading and Settlement (Code).

2 Monthly Statistics

Code Breaches

Breaches of the Trading & Settlement Code were noted in the following areas.

Code Breaches			
Area		Major	Minor
Data Providers		-	2
Market Participants	Pricing & Scheduling	-	-
	Settlement	-	-
	Funds Transfer	4	-
	Credit Risk Management	-	-
SEMO	Pricing & Scheduling	-	3
	Settlement	-	2
	Funds Transfer	-	-
	Credit Risk Management	-	-
	Other	-	-
Total		4	7

Table 1 - Code Breaches

Further details of each of the code breaches noted above are set out in [Appendix A](#)

Key:

- Major Breach - late publishing of invoices, default notices issued for non-payment or similar.
- Minor Breach - deadlines not met, but any financial implication to Participants. This includes late posting of pricing and settlement runs.

Joining and Terminating Parties and Units

One new party joined the Market in March 2014.

- PY_000130 Killowen Biogas Limited

There were no terminating parties in March 2014.

Four new units became effective in the Market in March 2014.

- DSU_401330 – ESBIE Electric Ireland DSU
- SU_400158 – ESBIE Electric Ireland TSSU
- GU_401510 – Mount Lucas Wind Farm Limited
- SU_400169 – Mount Lucas Supply Company Limited

No units were de-registered from the Market in March 2014.

Suspension of Participants

There have been no Suspension Orders issued by the Market Operator at this time.

3 Financial Statistics

Total Charges for Each Currency

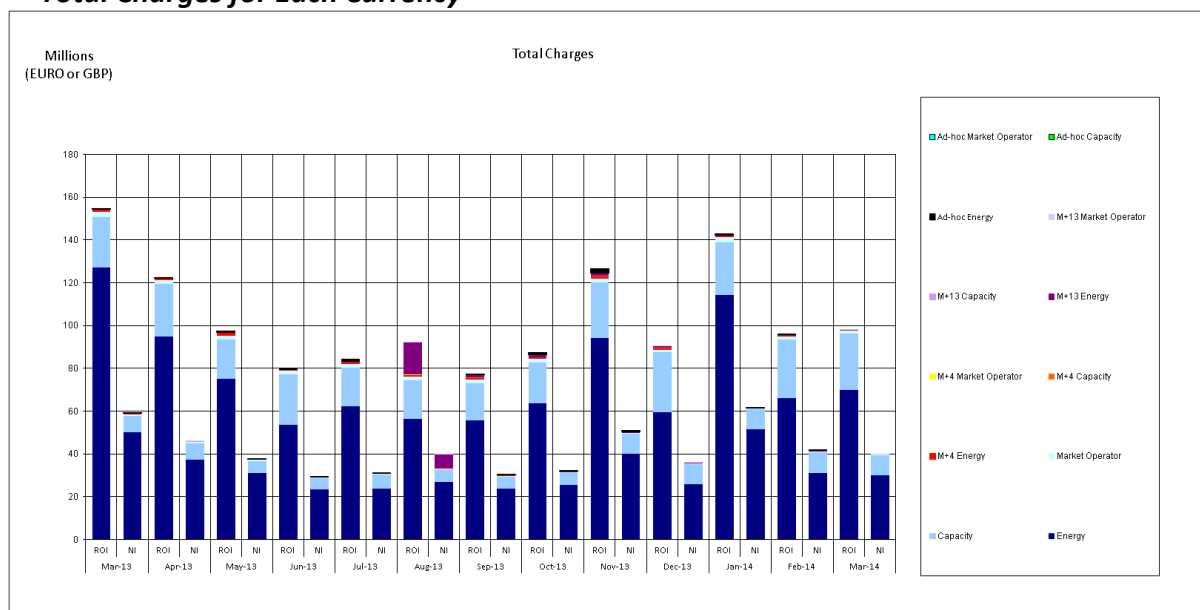


Figure 1 - Total Charges for Each Currency

Market	March 2014	
	ROI	NI
Energy	€70,041,213	£30,175,819
Capacity	€26,285,336	£9,293,564
Market Operator	€1,449,160	£406,620
M+4 Energy	€261,906	£46,941
M+4 Capacity	€61,216	£7,639
M+4 Market Operator	€2,226	£409
M+13 Energy	€92,284	£52,408
M+13 Capacity	€30,407	£11,934
M+13 Market Operator	€960	£471
Ad-hoc Energy	€0	£0
Ad-hoc Capacity	€0	£0
Ad-hoc Market Operator	€0	£0
Total	€70,041,213	£30,175,819

Table 2 - Total Charges for Each Currency

Notes relating to Table 2 and 3:

- Month of inclusion based on Invoice Date.
- Amounts are after application of Settlement Reallocations.
- Previous month's data is available in [Appendix G](#).

Total Payments for Each Currency

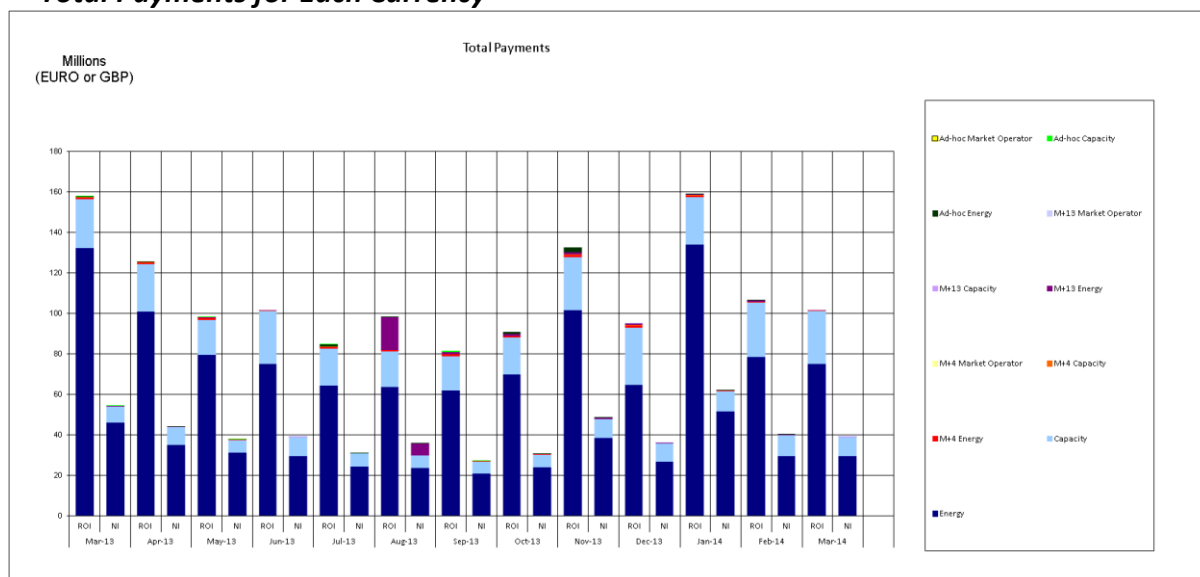


Figure 2 - Total Payments for Each Currency

Market	March 2014	
	ROI	NI
Energy	€75,149,006	£29,749,446
Capacity	€26,180,621	£9,292,033
M+4 Energy	€259,645	£46,950
M+4 Capacity	€60,397	£8,327
M+4 Market Operator	€2,171	£409
M+13 Energy	€127,304	£52,017
M+13 Capacity	€28,200	£13,761
M+13 Market Operator	€960	£471
Ad-hoc Energy	€0	£0
Ad-hoc Capacity	€0	£0
Ad-hoc Market Operator	€0	£0
Total	€101,808,304	£39,163,414

Table 3 - Total Payments for Each Currency

Total Balancing Costs

Balancing Costs arise in the Energy and Capacity markets when the summed payments to the SEM from Participants in respect of their Supplier Units do not meet the summed payments to Participants from the SEM in respect of their Generator Units.

Although, it is intended the Energy Payments and Energy Charges should be balanced through the mechanism of the Error Supplier Unit in each jurisdiction, because Energy Payments are made against Market Schedule Quantities while the Error Supplier Unit volumes are calculated against Metered Generation, the different application of Loss Factors means that there is frequently an imbalance between the Energy Payments and Energy Charges.

With regard to the Energy Settlement, the Balancing Costs have been calculated as follows for the entire month:

March 2014	
Imbalance (Energy Only)	-€27,820,957.96

Table 4 - Balancing Costs for Energy Settlement

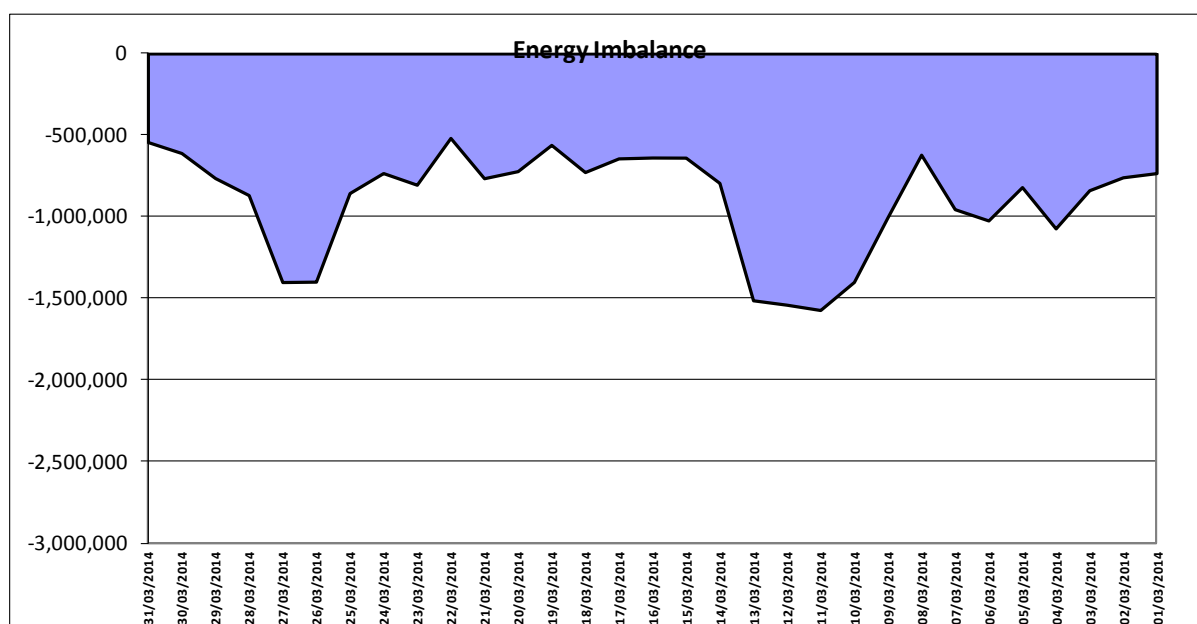


Figure 3 – Energy Imbalances

The full Balancing Cost of the SEM is determined by the summation of the daily payment amounts for Energy Imbalance, Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges combined with the weekly Make Whole Payments and Testing Charges.

Historical values for testing charges have been provided in [Appendix E](#) .

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The figures for the full Balancing Cost of the SEM since the last Market Operator report are shown below, as well as the VAT Balancing Costs.

In tables 5 and 6 below:

- Positive values indicate Payments were greater than Charges.
- Negative values indicate Charges were greater than Payments.

Date Of Invoice	Week No	SEM Balancing Costs	VAT Balancing Costs
07/03/2014	8	€1,243,165.04	€ 640,903.32
14/03/2014	9	€842,764.84	€ 498,771.98
21/03/2014	10	€566,483.84	€ 51,979.84
28/03/2014	11	€604,404.46	€ 287,653.95

Table 5 - Balancing Costs for Trading Payments and Charges

SEM Balancing Costs are provided based on daily exchange rates, VAT Balancing Costs are based on the Invoicing day exchange rate. VAT Balancing costs exclude Currency Cost related VAT.

It is intended that the algorithms set out in the Trading and Settlement Code will lead to a balanced Capacity Market. However, rounding precisions within the systems may result in an imbalance being introduced into the equations. This imbalance may lead to funding requirements to ensure that all payments out are made as per the terms of the Code.

With regard to the Capacity Settlement, the Balancing Costs have been as follows:

March 2014	
Capacity Charges	-€51,436,828.6
Capacity Payments	€51,436,495.83
Balancing Costs	-€332.7
VAT	€5,757.11

Table 6 - Balancing Costs for Capacity Settlement

Historical figures, the current financial year full Balancing Costs for both Trading and Capacity are provided in [Appendix H](#). VAT Balancing costs exclude Currency Cost related VAT.

Market Operator Monthly Report

Total Currency Costs

Currency Costs in the SEM are calculated with respect to the difference in Exchange Rates due to two components:

- 1) Invoice Currency Costs: - in respect of the difference between the Trading Day Exchange Rate (and Annual Capacity Exchange Rate in respect of Capacity Settlement) and the Exchange Rate on the Date of Invoice (being the date of issue of the Invoice) for Trading Payments and Charges.
- 2) Payment Period Currency Costs: - in respect of the difference between the Exchange Rates between the Date of Invoice and the Date of Payment.

Although the Code uses the term Currency Cost, the currency differences may end up as a benefit or a cost to the Participant depending on how the Exchange Rate fluctuates between the Billing Period, Invoice Date and Payment Date. In the table below, where this value is positive this means there was an overall benefit to Participants, negative values mean there was an overall cost to Participants resulting from trading in two currencies. Figures are shown in Sterling (£).

Last Date Of Billing Period	Date Of Invoice	Week No	Currency Costs For Energy Settlement (Invoice and Payment)	Currency Cost Adjustment for Inter-jurisdictional SRAs	Total Currency Cost
01/03/2014	07/03/2014	8	-£ 700.01	£ 103.43	-£ 596.58
08/03/2014	14/03/2014	9	£ 8,708.67	£ 0.00	£ 8,708.67
15/03/2014	21/03/2014	10	-£ 2,936.57	£ 0.00	-£ 2,936.57
22/03/2014	28/03/2014	11	-£ 6,560.20	-£ 4,650.00	-£ 11,210.20

Table 7 - Total Currency Costs for Trading Payments and Charges

The Total Currency Cost figures detailed above show the Currency Cost for each Billing Period including Invoice Currency Costs, Payment Period Currency Costs, and Inter-jurisdictional SRA Currency Costs.

Over the period of this report Currency Costs for each week represented a benefit to Participants of up to £8,708.67 and a cost of €-11,210.20. Whether Currency Costs are a cost or benefit to Participants is directly related to whether the currency is rising or falling between the billing period, invoice date and payment dates.

Settlement Reallocation Agreements between the two currency zones continue to present volatility in the Currency Costs that appear in the Energy market each week. The value of these adjustments is detailed separately above in each Billing Period.

The Currency Costs, for the current financial year, with respect to Initial Capacity Settlement are set out below. Figures are shown in Sterling (£).

Date Of Invoice	Capacity Month	Currency Costs For Capacity Settlement
11/03/2014	March 2014	£22,412.99

Table 8 - Total Currency Costs for Capacity Payments and Charges

Cumulative Imperfections Costs Vs Budget

The value of Cumulative Imperfections Costs Vs Budget is calculated as the sum of Total Constraint Payments, Total Uninstructed Imbalance Payments, Total Testing Charges and Total Make Whole Payments, as compared against the Total Imperfections Charges, being the weekly budget for these Imperfections Costs.

These values have been collected across the months since the start of the new financial year, 1st October 2013. The values expressed in Euros are as follows.

This table makes use of the values taken from the Initial Settlement Run of Trading payments and charges.

Total Constraint Payments	Total Uninstructed Imbalance	Total Make Whole Payments	Total Imperfections
€123,058,559.77	-€1,434,621.37	€1,452,529.92	-€75,445,270.71

Table 9 – Cumulative Imperfections Costs Vs Budget

This is demonstrated in the figure below.

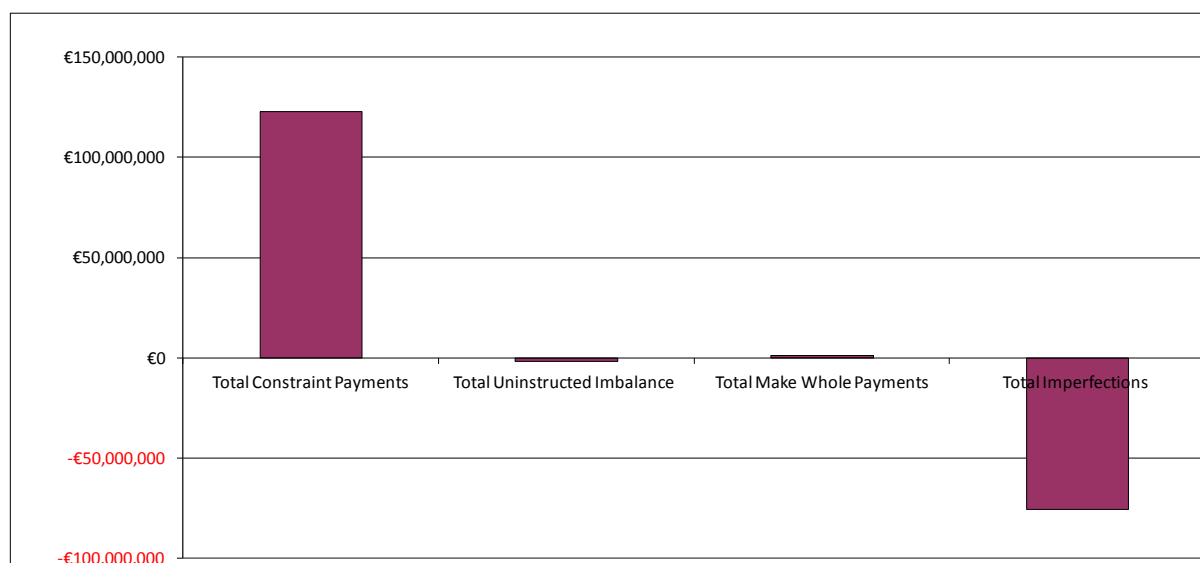


Figure 4 - Cumulative Imperfections Costs Vs Budget

The daily and weekly data that comprised these values is shown in [Appendix E](#).

Financial Changes between Initial Settlement and Subsequent Reruns

The following graphs provide a breakdown of resettlement amounts for the M+4 resettlement period of November 2013 and M+13 resettlement period of February 2013 for Energy and Capacity.

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3.1.1 Energy Market

Note: - For Figure 6, 8, 9, net values are shown.

- Positive amounts indicate net additional payments by Participants (Charges).
- Negative amounts indicate net additional payment to be made to Participants (Payments).

The reverse is true for Figure 7 & 10.

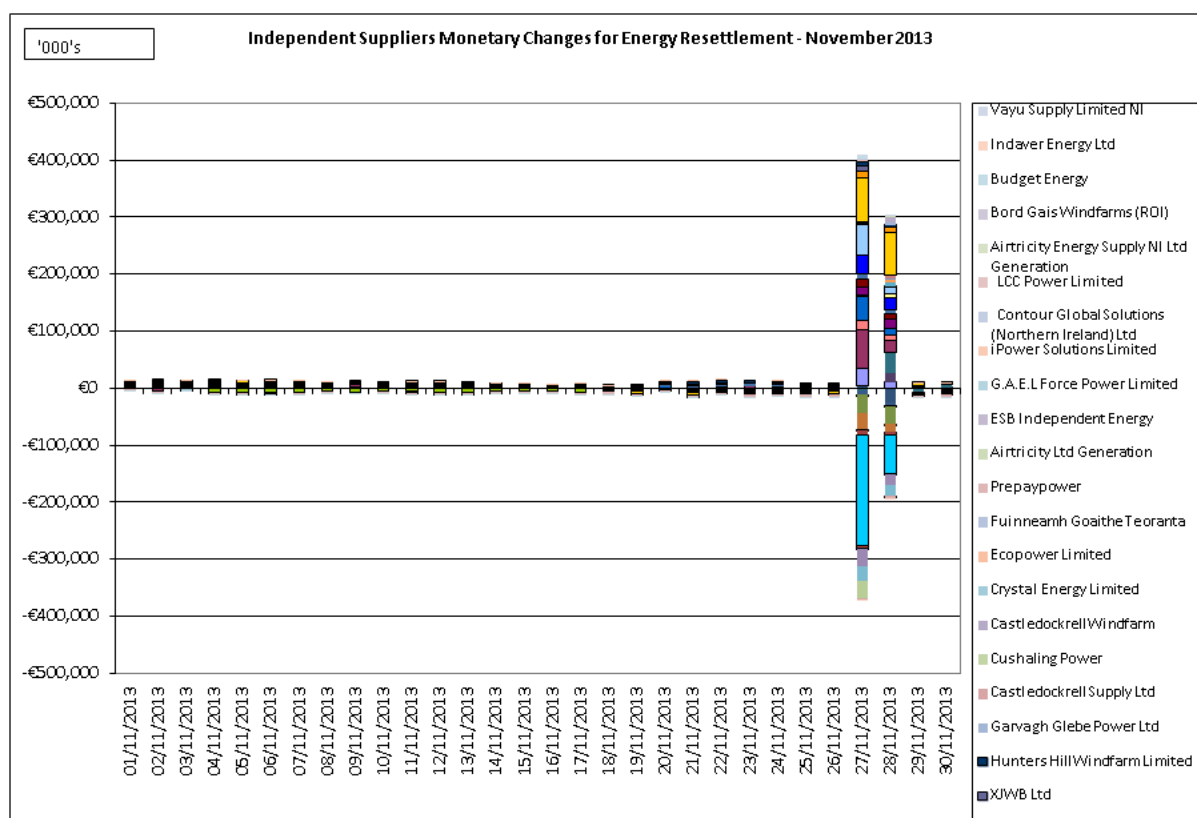


Figure 5 – Independent Suppliers Monetary Changes for Energy Resettlement – November 2013

The above variances relates purely to rounding for Participant's between Initial and M+4 Resettlement.

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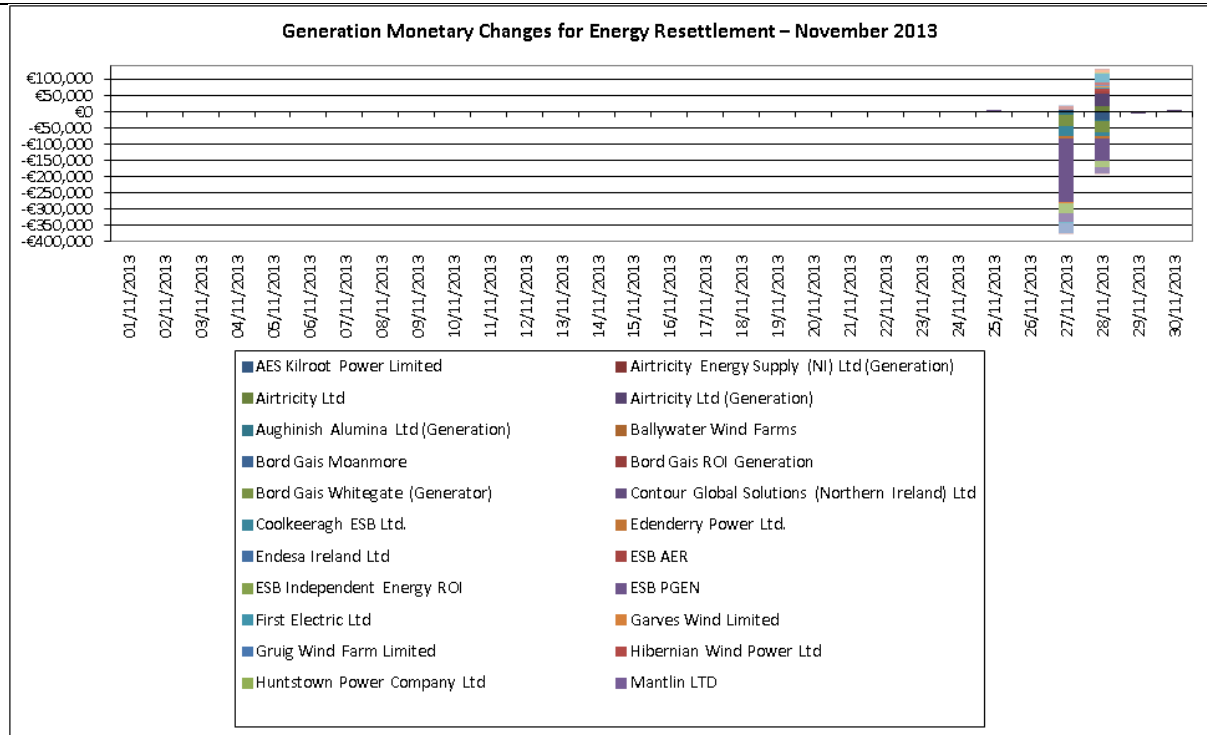


Figure 6 – Generation Monetary Changes for Energy Resettlement – November 2013

Changes noted above are due to a re-price on Trade Date 27th November 2013.

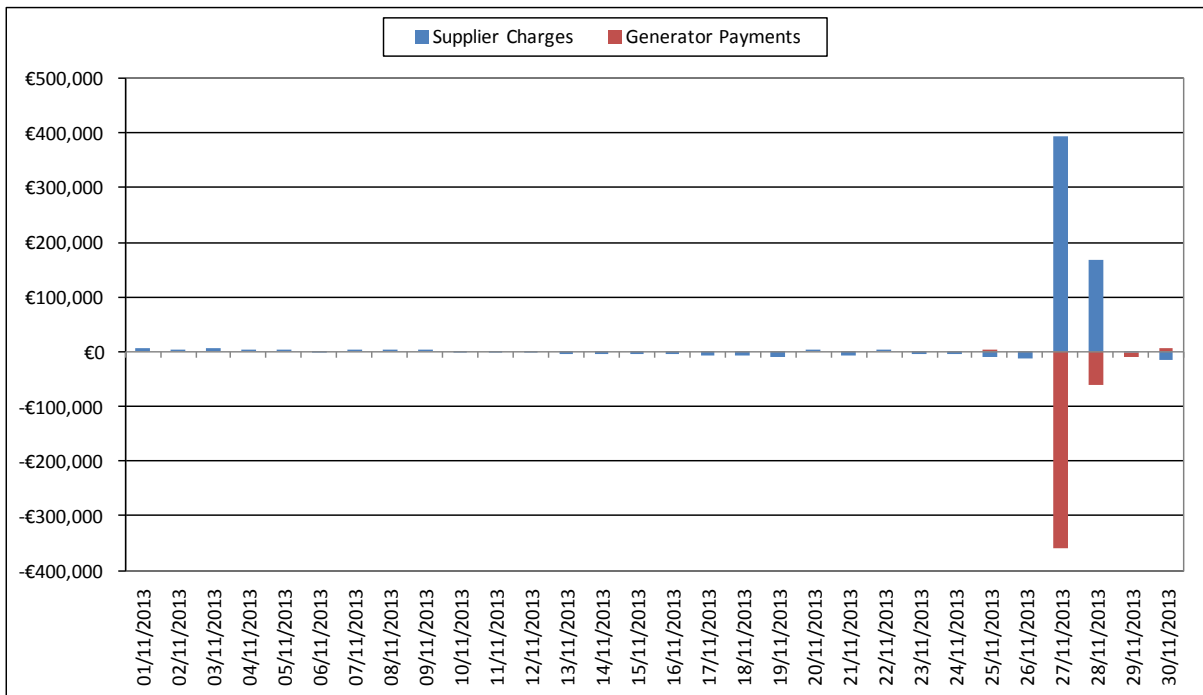


Figure 7 – Total Monetary Changes for Energy Resettlement – November 2013

M+13 Resettlement

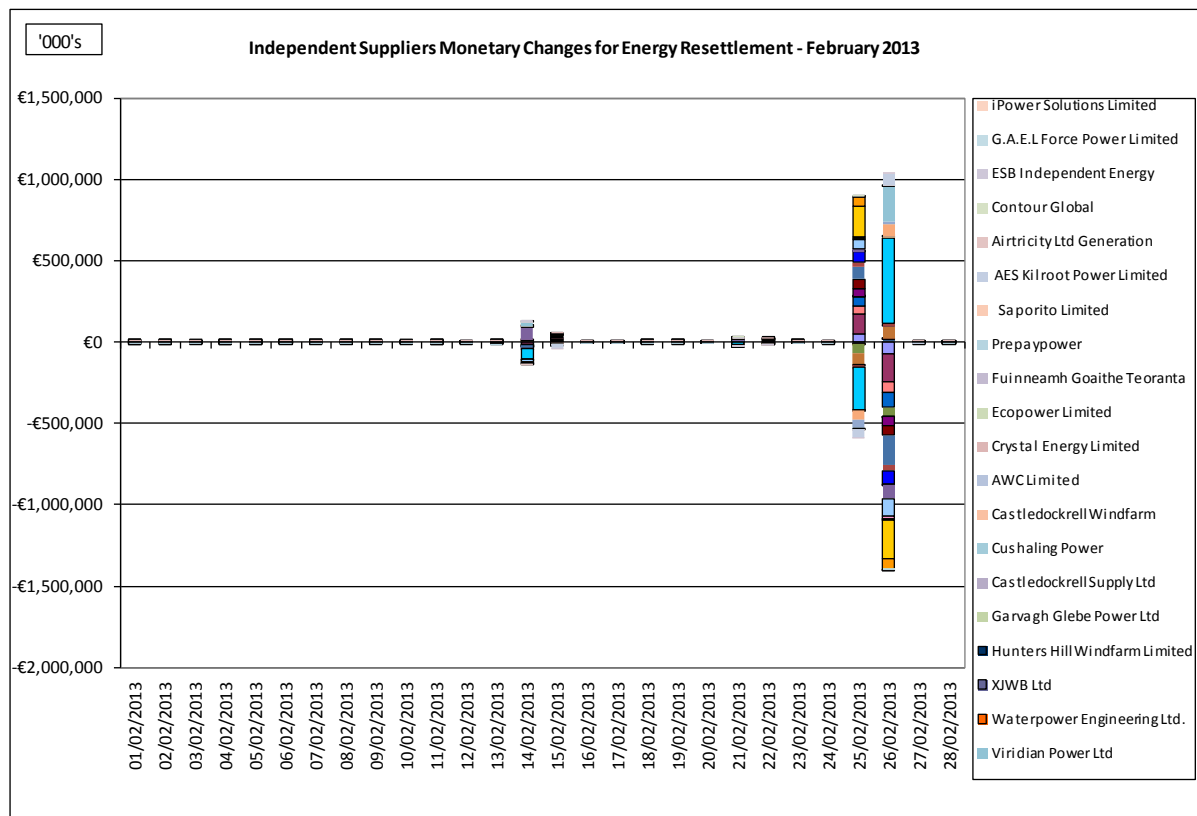


Figure 8 - Independent Suppliers Monetary Changes for Energy Resettlement – February 2013

Changes noted above are driven by updates to Non-Price Effecting Metered Demand from the original Day +4 submissions and a re-price on Trade Dates 14th, 21st, 25th and 26th February 2013.

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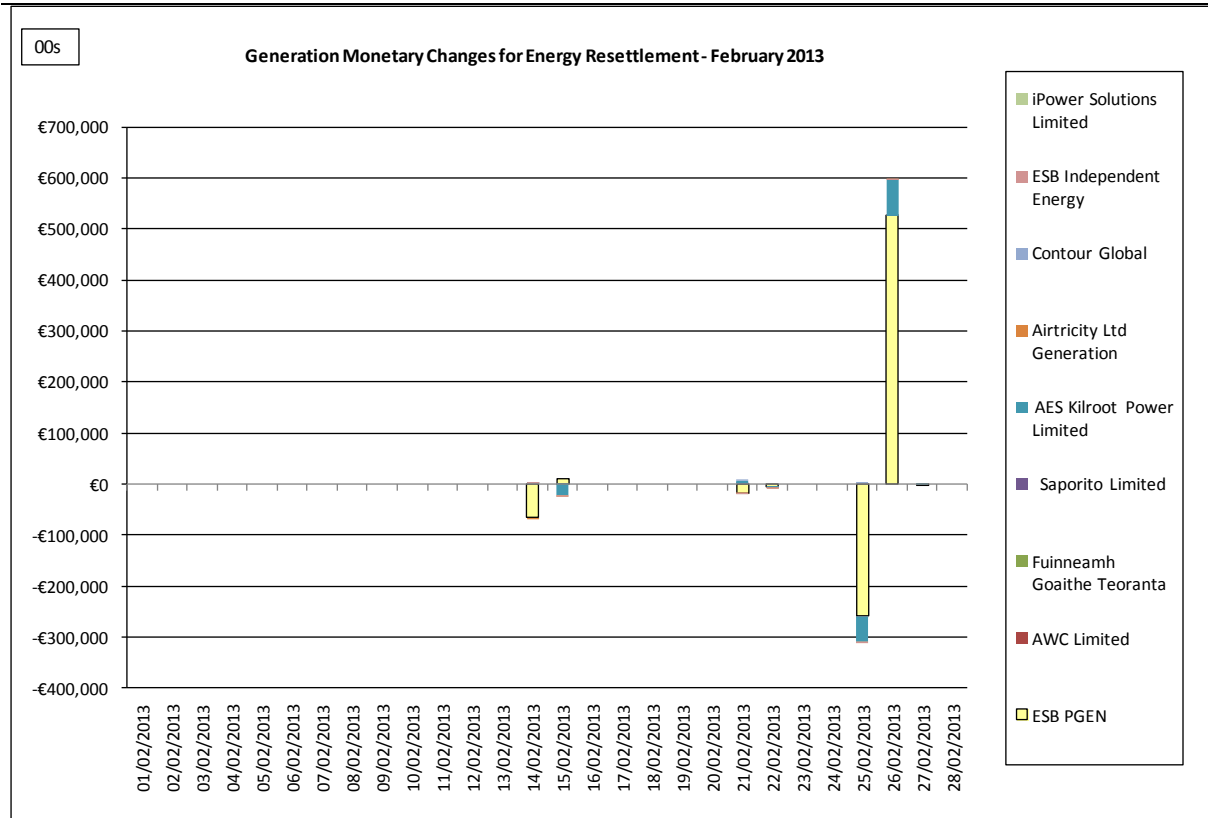


Figure 9 - Generation Monetary Changes for Energy Resettlement – February 2013

Changes noted above are due to re-prices on Trade Dates 14th, 21st, 25th and 26th February 2013.

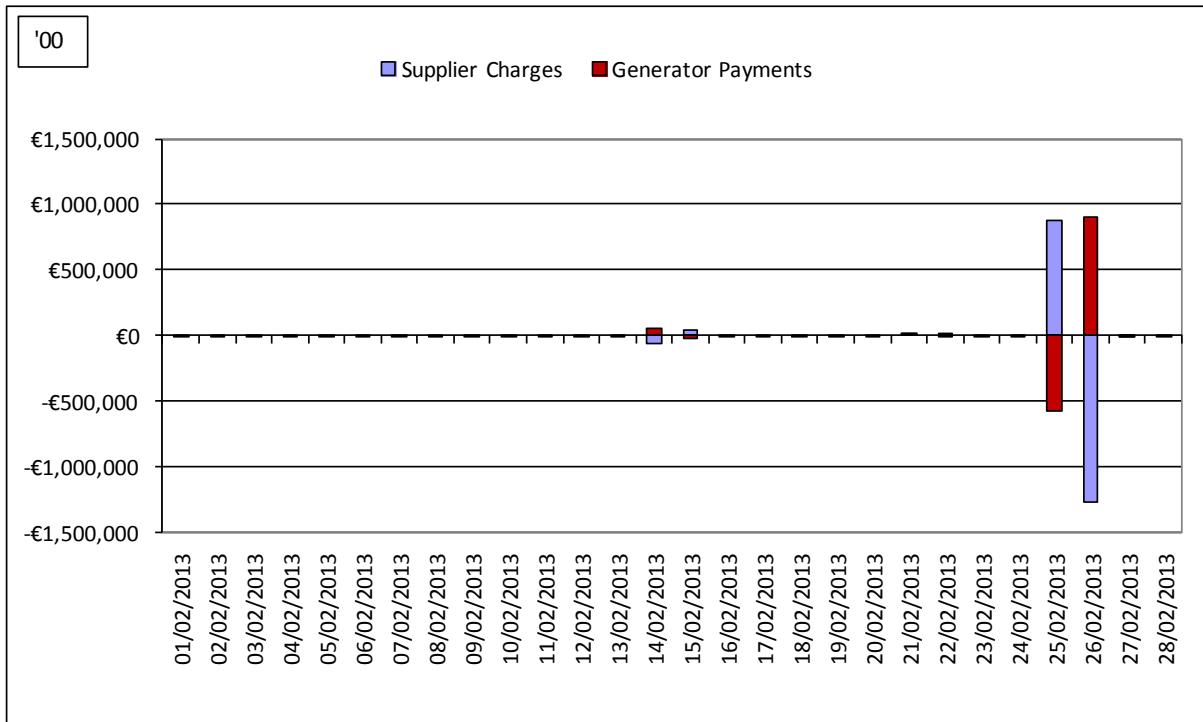


Figure 10 - Total Monetary Changes for Energy Resettlement – February 2013

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3.1.2 Capacity Market

Note: - For Figure 12, 13 & 16 net values are shown.

- Positive amounts indicate net additional payments by Participants (Charges).
- Negative amounts indicate net additional payment to be made to Participants (Payments)

The reverse is true for Figure 14 & 22.

The changes in Capacity are graphed below showing the variance in monetary terms as opposed to percentage terms. As the Jurisdictional Error Supply Units can be significantly affected by resettlement, this is more reflective of the monetary redistribution in M+4 and M+13. Please also note that as of June 2011 the Jurisdictional Error Supply Unit (ROI) is now a Retail Supply unit. The Jurisdictional Error Supply Unit (NI) is unchanged.

M+4 Resettlement

Under resettlement, charges originally attributed to the Jurisdictional Error Supplier Units, have now been redistributed among Market Participants.

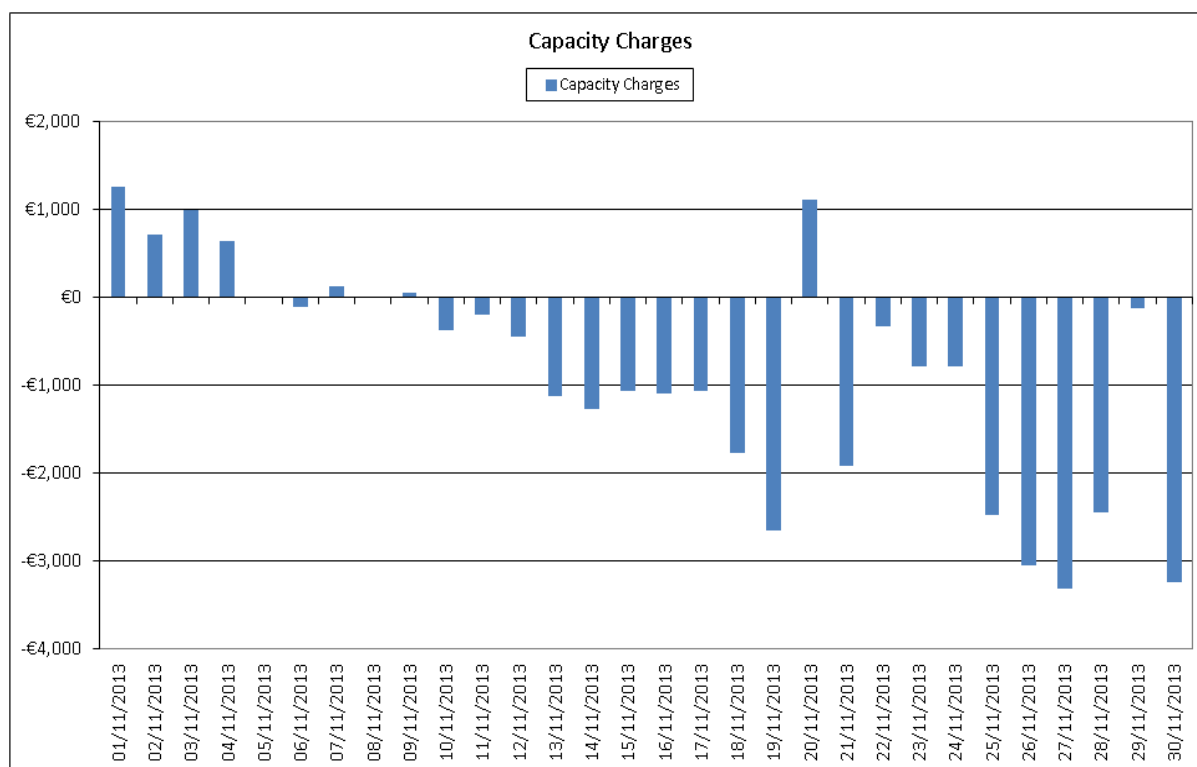


Figure 11 - Independent Suppliers Monetary Changes for Capacity Resettlement – November 2013

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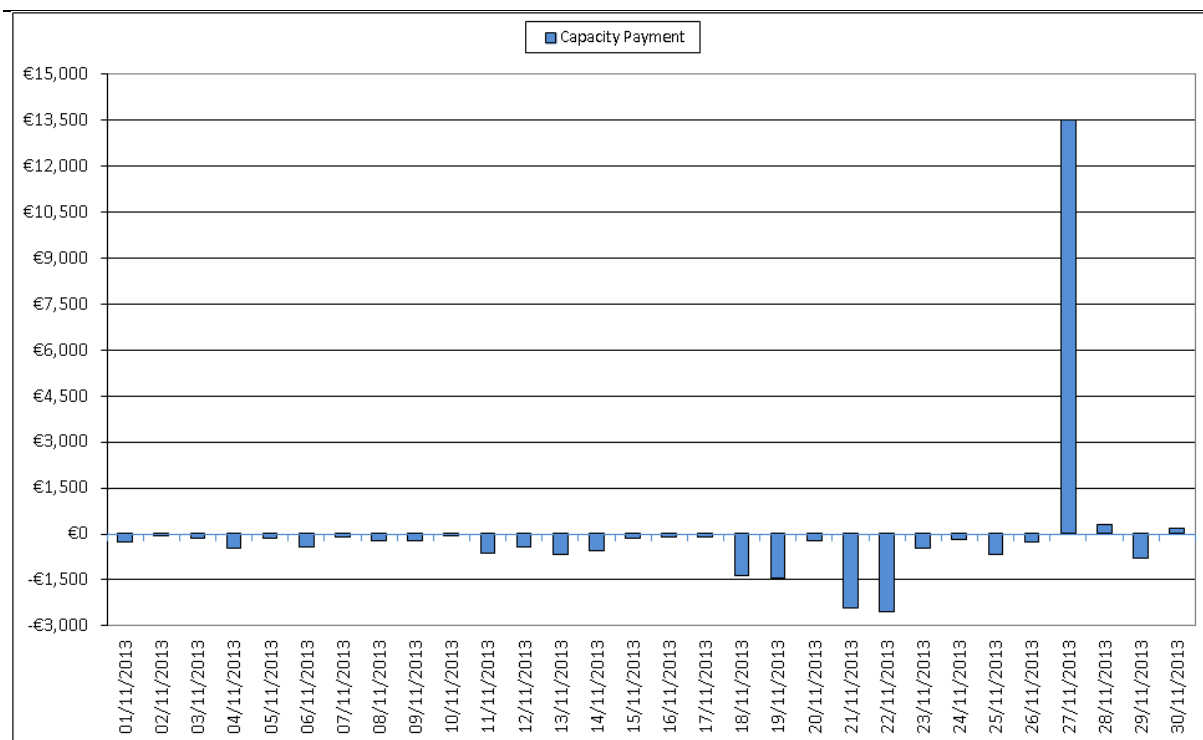


Figure 12 - All Generation Monetary Change for Capacity Resettlement – November 2013

The changes above are driven by updated meter data for Autonomous Price Taker generators.

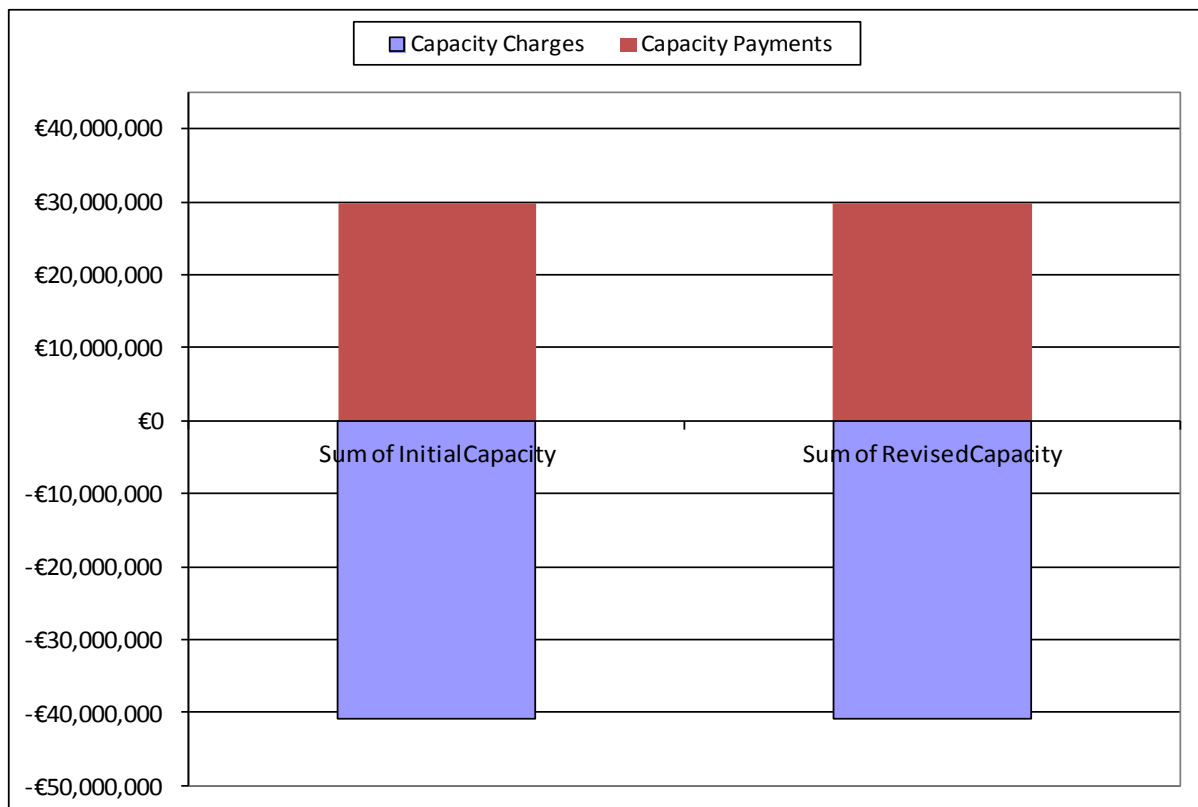


Figure 13 - Comparison of Distribution of Monetary Amounts between Capacity Initial and Resettlement November 2013

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The above graph demonstrates that due to all the individual changes to payment and charge amounts on a Supplier or Generator Unit basis, the overall Capacity Market resettlement Charge and Payment amounts have not changed due to resettlement.

M+13 Resettlement

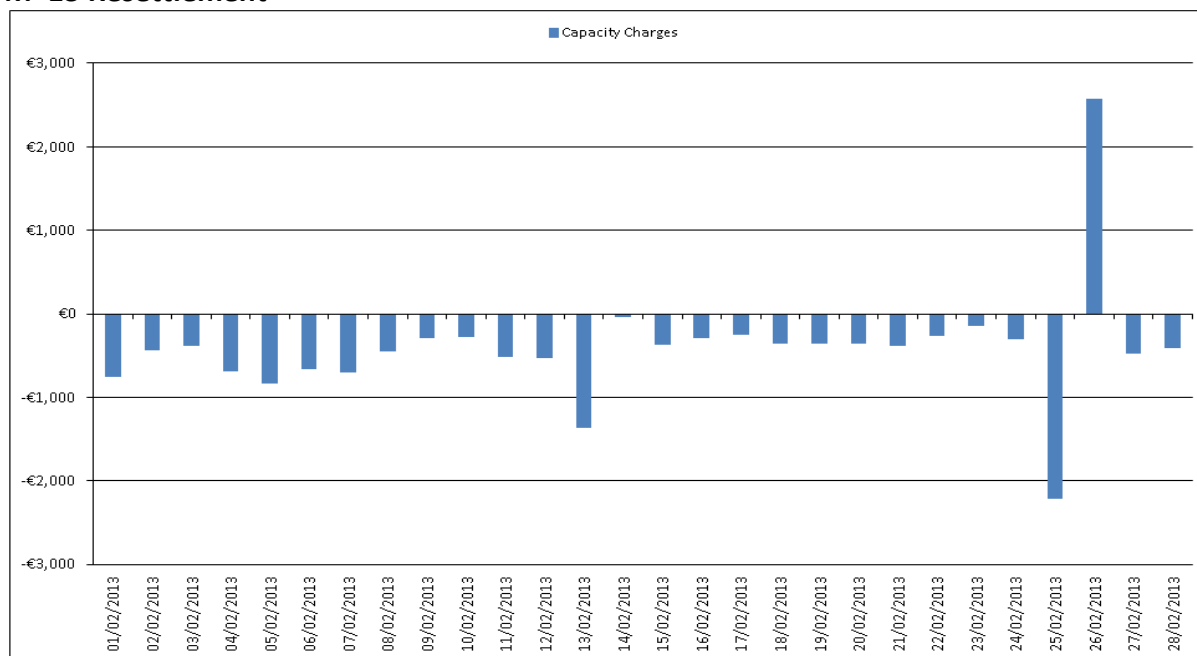


Figure 14 - Independent Suppliers Monetary Changes for Capacity Resettlement – February 2013

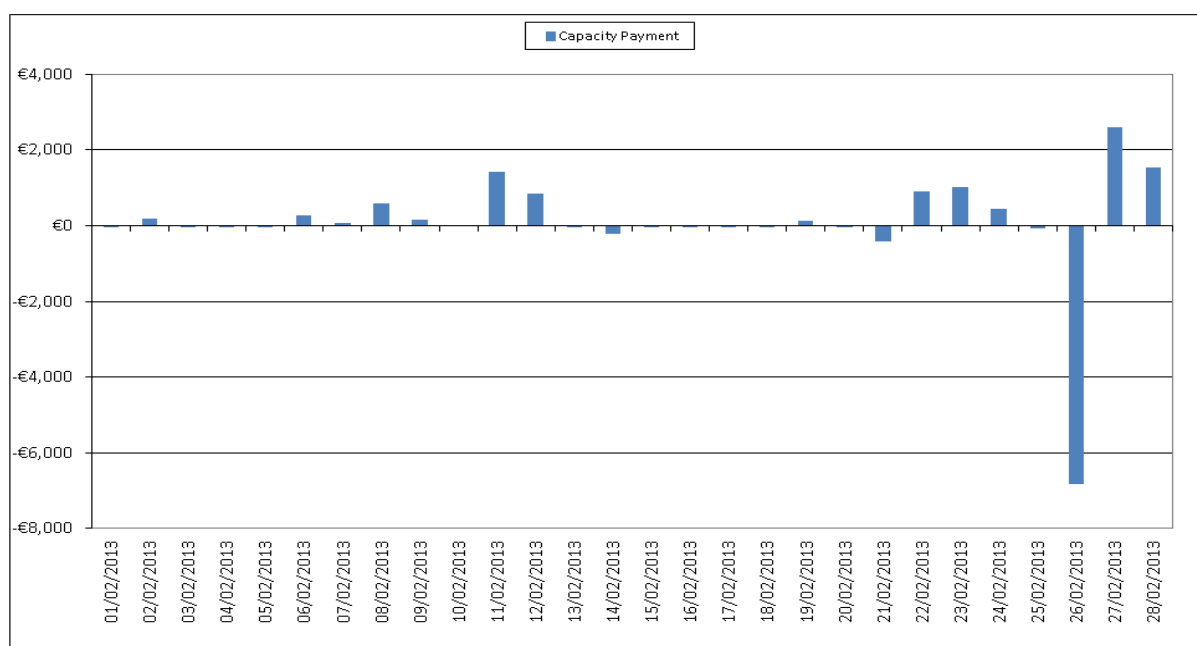


Figure 15 - All Generation Monetary Change for Capacity Resettlement – February 2013

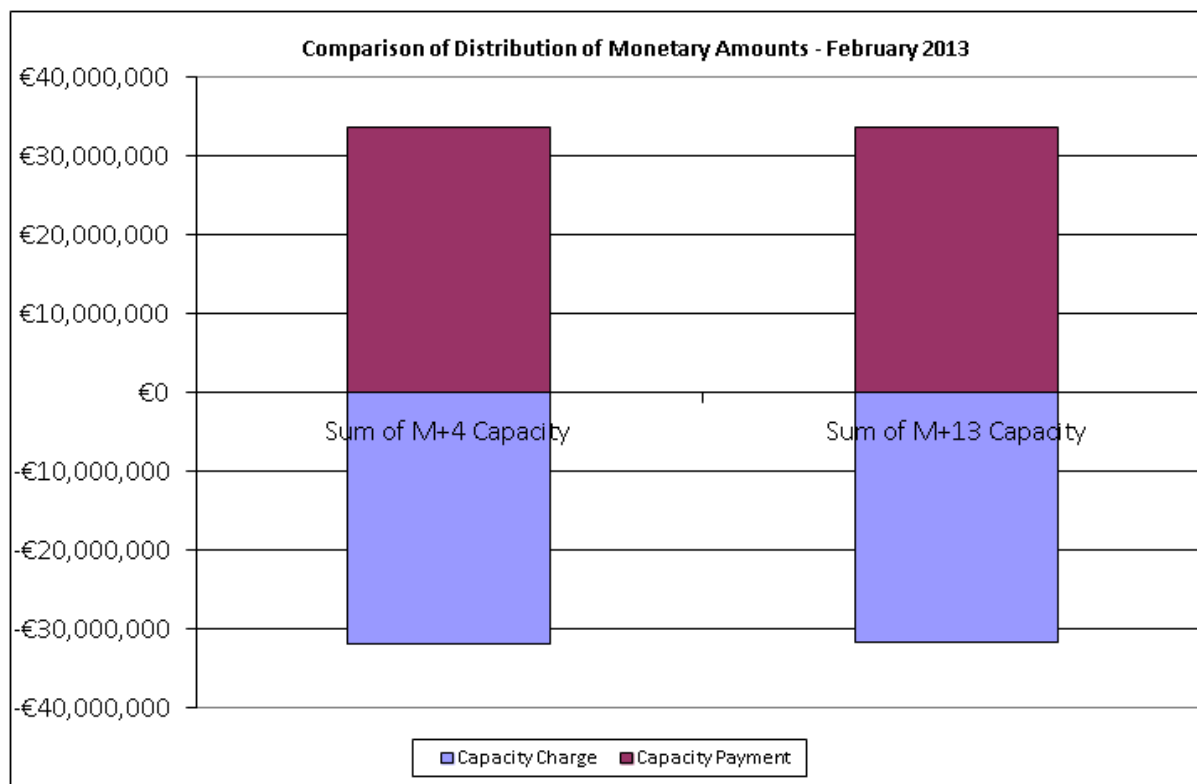


Figure 16 - Comparison of Distribution of Monetary Amounts between M+4 Capacity Resettlement and M+13 Capacity Resettlement – February 2013

The above graph demonstrates despite all the individual changes to payment and charge amounts on a Supplier or Generator Unit basis, the overall Capacity Market resettlement Charge and Payment amounts have not changed due to resettlement.

Financial Changes between Initial Settlement and Subsequent Reruns

The following graphs provide a breakdown of resettlement amounts for the M+4 resettlement period of November 2013 and M+13 resettlement period of February 2013 for Energy and Capacity.

3.1.3 Energy Market

Note: - For Figure 6, 8, 9, net values are shown.

- Positive amounts indicate net additional payments by Participants (Charges).
- Negative amounts indicate net additional payment to be made to Participants (Payments).

The reverse is true for Figure 7 & 10.

4 Helpdesk Call Statistics

The statistics presented in Table 10 - Helpdesk Call Statistics covers the month of March 2014.

	Received	Resolved within the period	Not Resolved	Resolved in the period	Resolution Time (Working Days)	Resolved On Time
Normal	163	133	30	148	1.81	140
Important	3	3	0	3	2.13	2
Urgent	6	6	0	6	1.11	3
Settlement	6	3	3	5	5.96	5
Credit	0	0	0	0	0.00	0
Dispute	1	0	1	16	213.88	0
Data	4	4	0	4	2.37	4
Total/Average	183	149	34	182	45.45	154

Table 10 – Helpdesk Statistics

Definitions:

- *Resolved within the Period* refers to queries raised and resolved within the calendar month of March 2014.
- *Resolved in the Period* refers to queries resolved within March 2014, and includes queries raised before this time.
- *Resolution Time (Working Days)* refers to average time to resolve, in working days, for this category of query. It is calculated based on all queries for the category, not just March 2014.
- *Not Resolved* refers to queries raised but not resolved within March 2014.
- *Urgent* are general queries which may have an impact on market operations. SEMO has an internal objective to resolve these within 3 working days; however, this is not mandated service level under the Trading & Settlement Code.
- *Disputes* are where a dispute has been raised over the outcome of a data or settlement query.

The average resolution time for General Queries has decreased by 0.02 working days in March from 1.70 working days in February to 1.68 working days in March. SEMO has a metric to resolve General Queries within 20 Working Days. These include queries received over the phone and e-mail. There were no queries logged in March 2014 that took over 20 working days to resolve. There are currently no pending calls that have been open longer than 20 working days.

Data and Settlement Queries generally continue to be responded to within the timelines required by the Code, i.e. one calendar month. No Formal Query timeline extensions were required during March 2014 with regard to formal Settlement Queries.

5 Disputes and Queries

List of Disputes by Topic

As of 15th April there are no outstanding Disputes.

Dispute	Raised	Resolved
F0057980	2014-03-06	2014-03-19

Table 11 - List of Disputes

List of Queries by Topic

5.1.1 Data Queries

Four Data Queries were raised in March 2014. Three were upheld. Three related to Capacity calculations for Energy Limited units and one related to an error in unit availability. The latter was not upheld.

Topic	Number Of Queries
Capacity	3
Error in unit Availability	1

Table 12. Queries by topic

5.1.2 Settlement Queries

There were six Settlement queries raised in March 2014. All six were upheld. There are two unresolved queries as at 15th April 2014.

Topic	Number Of Queries
Availability	1
MIUN	2
Eligible Availability	1
Dispatch Offer Price	1
Dispatch Instructions	1

Table 13 – Upheld Settlement queries by topic

- Two queries relating to incorrect Availability data were upheld. One did not require resettlement and one will be corrected during the next scheduled resettlement which is M+4.
- Two queries relating to incorrect MIUN's were upheld. Both were deemed to be of low materiality (<€50,000) and will be corrected during the next scheduled resettlement which is M+4.

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- One query relating to Dispatch Instructions was upheld. The issue was deemed to be of low materiality (<€50,000) and will be corrected during the next scheduled resettlement which is M+4.
- One query relating to Dispatch Offer Price was upheld. The issue was deemed to be of low materiality (<€50,000) and will be corrected during the next scheduled resettlement which is M+13.

Unresolved Queries

There are four unresolved Settlement queries as at 15th April 2014.

A full list of all the Data and Settlement queries raised is contained in [Appendix B](#).

6 Central Systems

Proportion of Default Data Used

On review of the Commercial Offer Data used in the MSP runs, 74.02% of data used was submitted by Participants through the normal Bid-Offer process. 25.44% of the data used was based on Standing Commercial Offer Data. 0.54% of the data used was based on adjusted offer data. None of the data used was based on Default Commercial Offer Data (Default differs from Standing in that it is based on the initial Default data submitted during registration process and not on more recent Standing Data submitted by the Participant through the Market Participant Interface). Details by unit are provided in [Appendix F](#).

Proportion of Estimated Meter Data used in Initial Settlement and Resettlement

This is not calculable presently.

List of System Errors and Re-runs

6.1.1 Re-Pricing and Resettlement Runs

There were four Re-Price runs carried out in March 2014.

There were no Resettlement runs carried out in March 2014.

6.1.2 System Errors

There were no defects identified in March 2014 that required resettlement. There were no system defects identified in March 2014 that required re-pricing.

Details are provided in Appendix C: List of All System Errors and Failures.

6.2 Operational Timings

This section lists the operation timings of MSP software runs and Settlement runs.

There are five run types for MSP software,

- Ex-Ante 1 Indicative, run on Trading Day – 1 calendar day,
- Ex-Ante 2 Indicative, run on Trading Day – 1 calendar day,
- With In Day 1 Indicative, run on Trading Day,
- Ex-Post Indicative, run on Trading Day + 1 calendar day, and
- Ex-Post Initial, run on Trading Day + 4 calendar days.

The following tables and graphs provide details for the postings of the MSP for March 2014.

6.2.1 MSP Postings March 2014

Process	On Time	< 1 hr late	> 1 hr late	Not done
Gate Close EA	31-31	31-31	31-31	0
Post EA1	31-31	31-31	31-31	0
Post EA2	31-31	31-31	31-31	0
Post WD1	30-31	30-31	30-31	1
Post EP1	31-31	31-31	31-31	0
Post EP2	31-31	31-31	31-31	0

Table 14 - Operational Timings

Process	On Time	< 1 hr late	> 1 hr late	Not done
Gate Close	100%	0%	0%	0%
Post EA1	100%	0%	0%	0%
Post EA2	100%	0%	0%	0%
Post WD1	97%	0%	0%	3%
Post EP1	100%	0%	0%	0%
Post EP2	100%	0%	0%	0%

Table 15 - Operational Timings (% on time)

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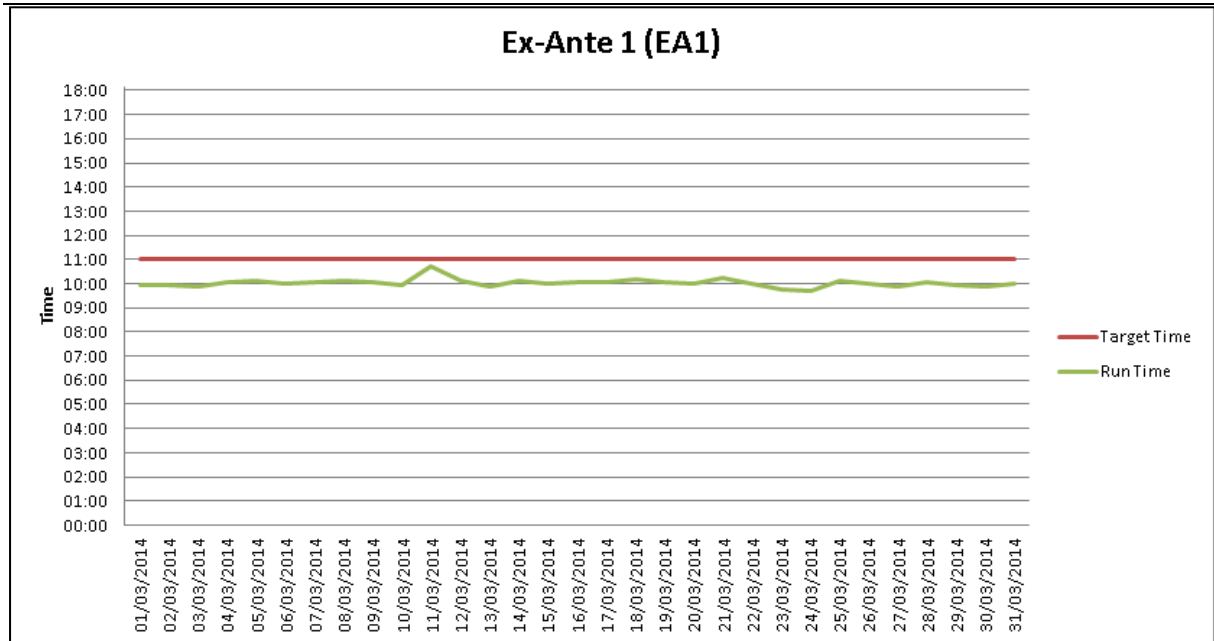


Figure 17 – Ex-Ante 1

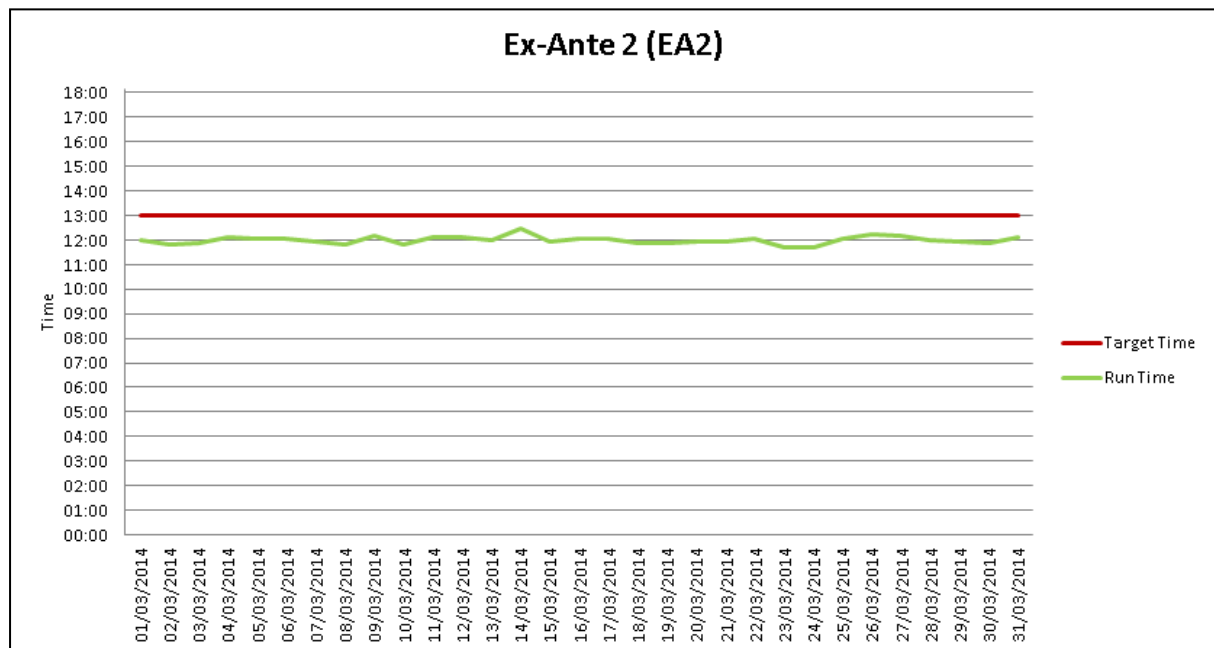
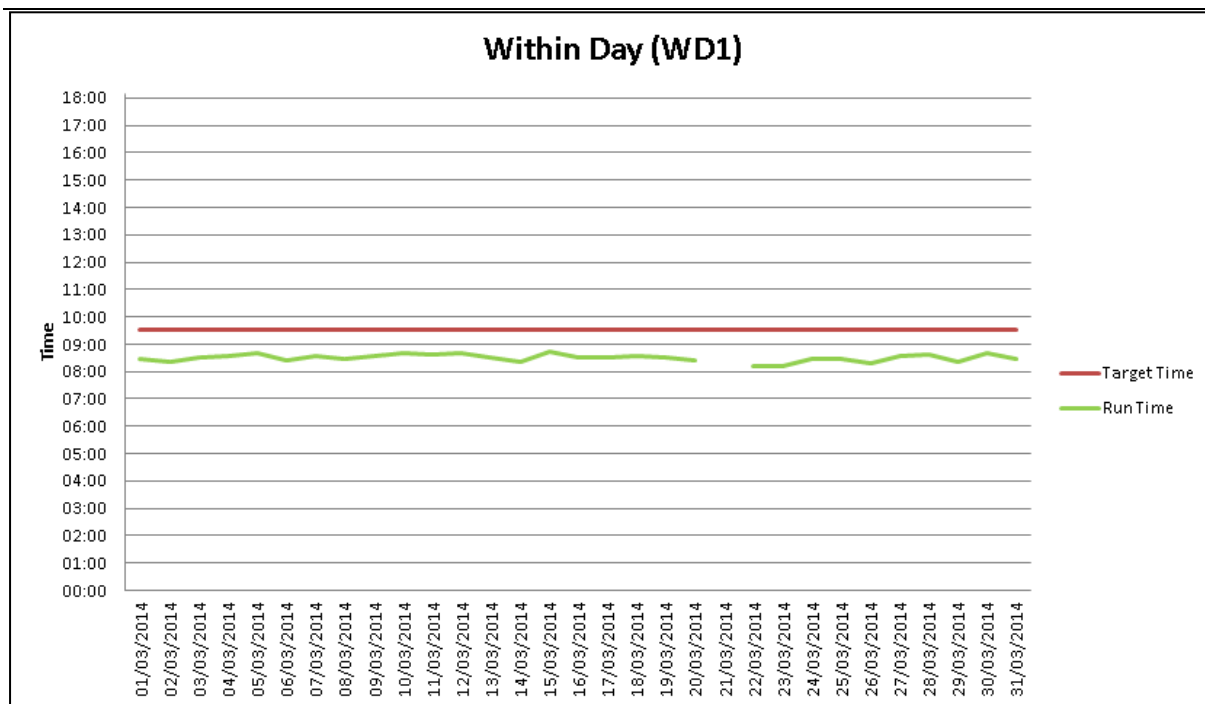


Figure 18 – Ex-Ante 2

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Note that WD1 for Trading Day 21/03/2014 was cancelled

Figure 19 – Within Day 1

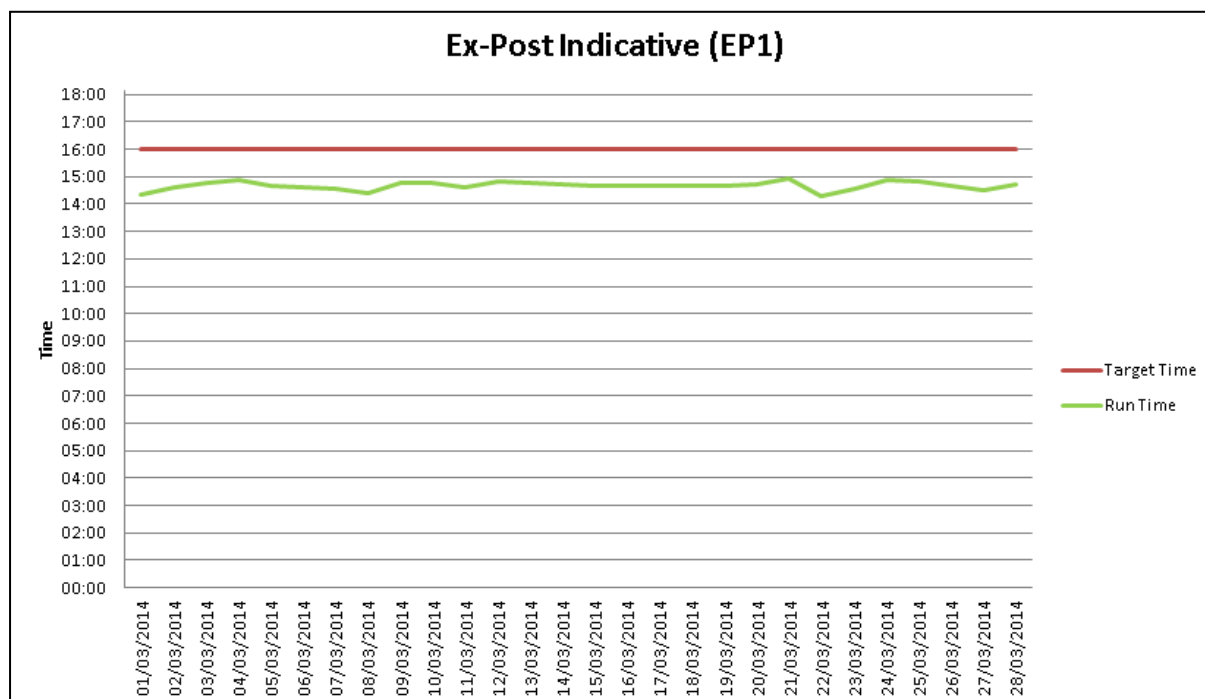


Figure 20 - Ex-Post Indicative

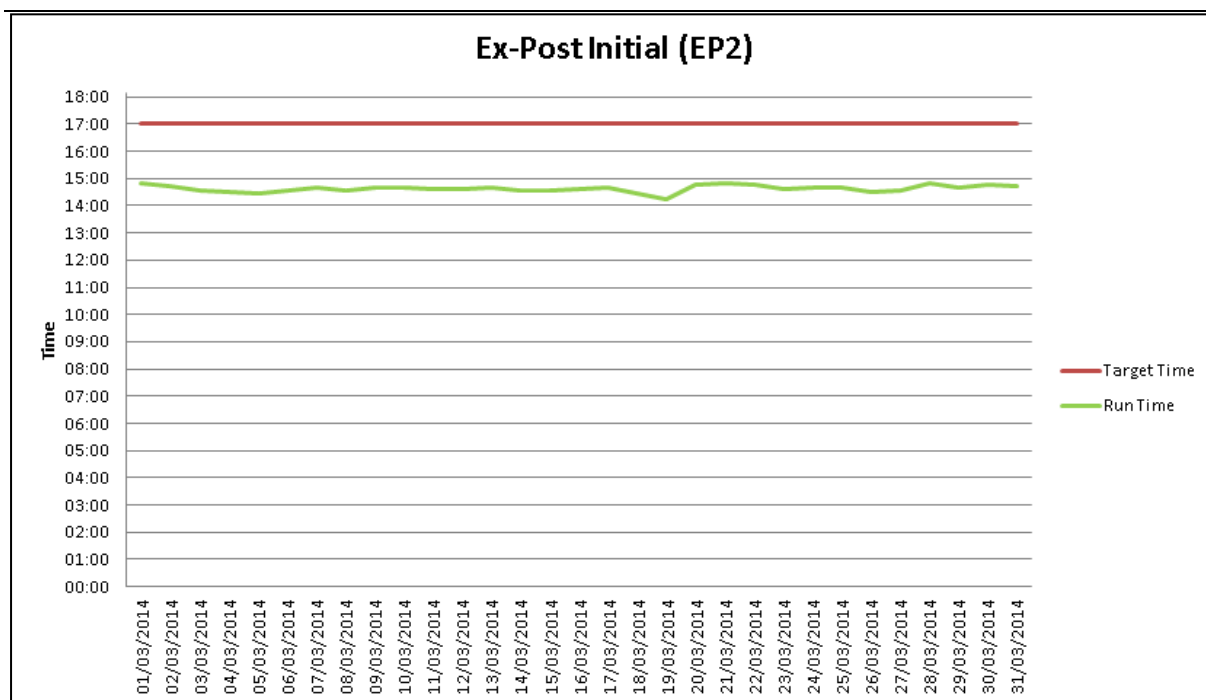


Figure 21 - Ex-Post Initial

Details of the operational timings of the Market System and Price (MSP) runs and Gate Closure are provided in [Appendix D](#).

6.2.2 MSP Algorithms

The Market Operator has two different certified solvers used to determine Unit Commitment. These solvers use the Lagrangian Relaxation (LR) and Mixed Integer Programming (MIP) methodologies.

The primary solver used in the SEM is Lagrangian Relaxation (LR). Under certain schedule outcomes where a significant pricing event is observed, the MSP software is re-run using the Mixed Integer Programming (MIP) solver. The outcomes of the two solvers are compared. Where solution determined using the MIP solver provides a better overall solution, this solution may be selected for publishing. An updated policy document on the use of MIP has been published and is available on the SEMO website [here](#).

In March 2014, there were six instances of publishing with the MIP solver.

Details of historical runs and dates where the MIP algorithm has been used for published results is provided in [Appendix I](#).

6.2.3 Settlement Postings March 2014

The publication timings for Settlement runs are provided below.

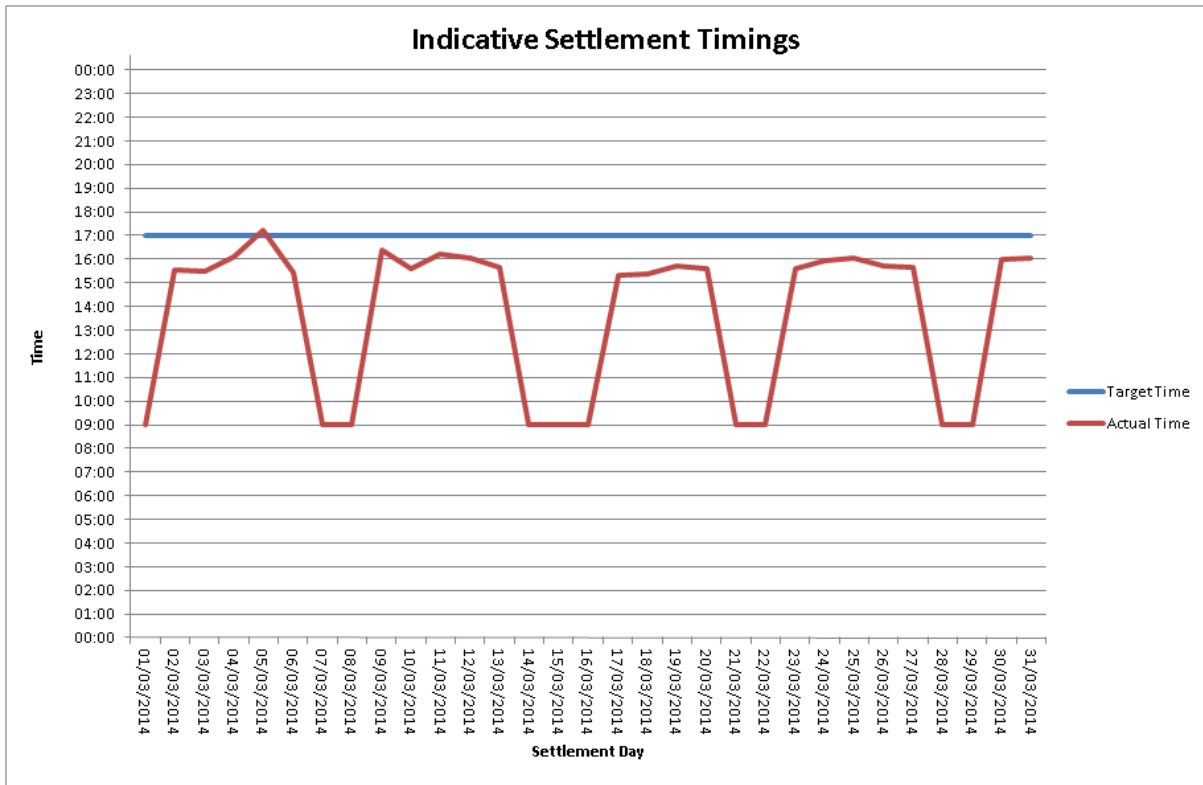


Figure 22 - Indicative Settlement Postings

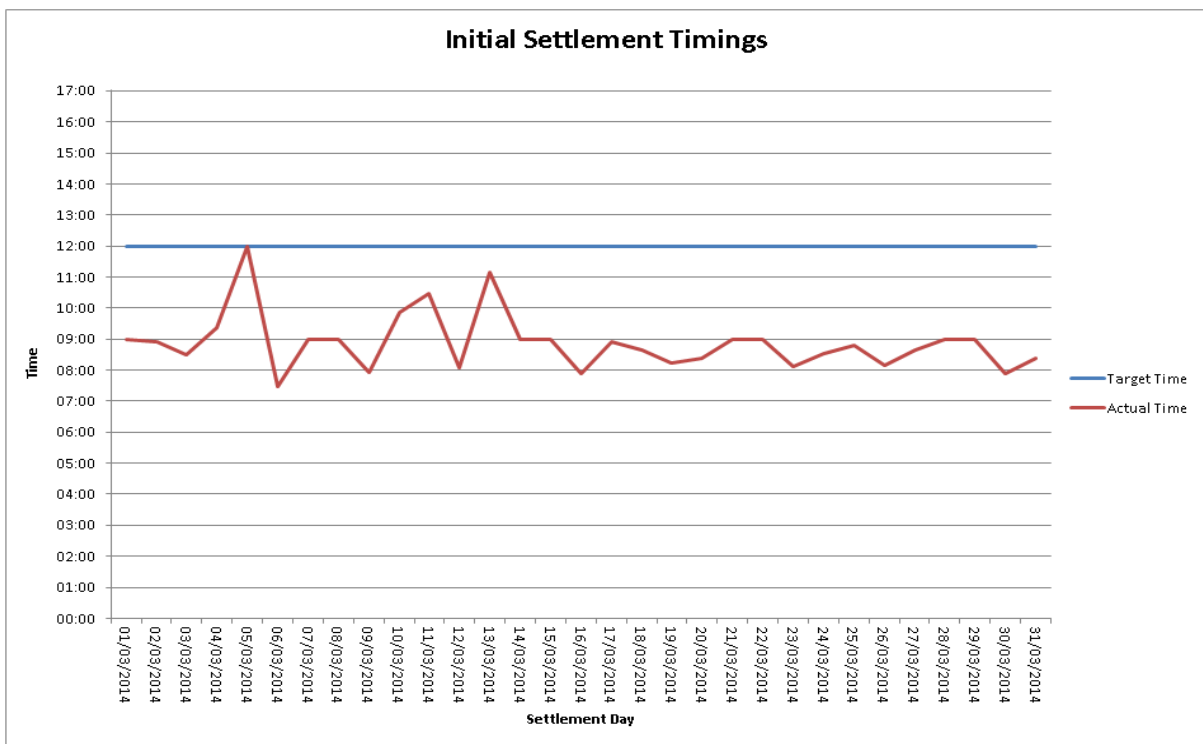


Figure 23 - Initial Settlement Postings

Further details of any delays noted above are provided in Appendix A

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Market System Releases

6.5.1 Release SEM R2.4.0 (Proposed Deployment: May 16th, 2014)

The following table outlines the approved scope for the SEM R2.4.0 release to the Central Market Systems:

CR Ref.	System	Description
SEM_PC_CR271	MI	Automated FX download to the Central Market Systems
SEM_PC_CR320	MI	Dispatch Instruction Validation Change
SEM_PC_CR324	MI	Event Warning for DAM event
SEM_PC_CR292	MI	MDP dropdown in the MPI
SEM_PC_CR226	MI	Pop-up reminder for digital certificate renewal
SEM_PC_CR323	STL	Bad Debt Smearing Calculation
SEM_PC_CR309	STL	Tax File Import
SEM_PC_CR325	STL	Automated Data Imports
SEM_PC_CR326	STL	Historical Process Warnings

The following are the high-level milestones for the SEM R2.4.0 release:

- The design phase completed in early February and the software was delivered to schedule on February 28th.
- System Integration Testing commenced to schedule on March 3rd and will run to April 25th.
- The Market Test phase will run from April 9th to April 25th inclusive.
- Deployment is scheduled for Friday May 16th, subject to successful completion of all testing.

6.5.2 Release SEM R2.5.0 (Proposed Deployment: October 2014)

The release cut-off date for the SEM R2.5.0 release to the Central Market Systems was Friday, February 21st, 2014.

Assessments have been provided by our vendors with respect to a number of Change Requests submitted for consideration for this release. A meeting of the Change Control Forum (CCF) was held on April 2nd at which the scope for this release was discussed.

A release scope proposal is currently being drafted and will be issued to the Regulatory Authorities for approval. On receipt of Regulatory approval the scope will be published to the industry.

7 Occasional Components

Disaster Recovery/Business Continuity Tests

There was no Business Continuity Tests performed during March 2014.

Administered Settlement

There was no requirement to run Administered Settlement during March 2014.

Communications or Systems Failures

There were a number of Market Interface system issues during March 2014;

An issue where AMP was unable to send files to the SONI FTP interface – after investigation it transpired that SONI had made a change to their ISP setting without informing anyone. Market Systems had to contact Unicorn to request that an update to match the SONI change be implemented.

The Dublin production external firewall started logging errors – investigation discovered that there was a hardware fault. The unit was then replaced.

An issue was identified with an internal application load-balancer – a reboot of the device addressed the problem.

Market Systems on-call was contacted by SONI NCC as they were unable to log into RCUC – investigation discovered that the RCUC client cert had expired. The call was passed to a Belfast Market systems support person who travelled to site to resolve the issue. The root cause was the new client cert was never installed on the RCUC workstation by SONI IS.

There was an instance of Support works email not being available - restart of the mail service on the Support works server resolved the issue.

A problem was reported with files not been sent to the MIUN calculator from MI, an issue was discovered with the internal FTP process that send these files to MIUN.

SONI IT reported a problem when sending in LOLP files – investigation could not find any previous submission of the data to the CMS however it was discovered that these files should be sent to the EirGrid systems. SONI were sending it to the wrong systems.

There were a number of participant submission issues during March – all were investigated and addressed.

Denial of Service Attacks

There was no Denial of Service Attacks during March 2014.

Submission of Parameters to RAs for Approval

No Parameters were submitted to the Regulatory Authorities in March 2014.

8 Appendix A: Detail of Code Breaches

Market Participant

05/03/2014	Money In	Timing	Participant	Payment Default	PT_400123 Taurbeg Limited defaulted on Week 4 2014 Ad Hoc Energy Invoice.	Participant Error	A default notice was issued to the participant	Major
11/03/2014	Money In	Timing	Participant	Payment Default	PT_400090 Activation Energy DSU defaulted on a February 2014 Initial FMOC invoice.	Participant Error	A default notice was issued to the participant	Major
24/03/2014	Money In	Timing	Participant	Payment Default	PT_400069 G.A.E.L Force Power Ltd defaulted on a February 2014 Initial FMOC invoice.	Participant Error	A default notice was issued to the participant	Major
24/03/2014	Money In	Timing	Participant	Payment Default	PT_400068 Ecopower Supply Limited defaulted on a Week 9 Initial VMOC invoice.	Participant Error	A default notice was issued to the participant	Major

Table 16 - Code Breaches – Market Participants

Data Provider

13/03/2014	EP1	Timing	EirGrid TSO	File Submission	The D+1 Redeclared Energy Limit datafeed was not sent by the T&SC deadline of 14:00. This data is used in the Capacity Calculation, which resulted in a Settlement Query.	Eirgrid system issues. File was not sent after system issues resolved.	Eirgrid sent the D+1 Redeclared Energy Limit datafeed to SEMO on the 07/03/2014.	Minor
14/03/2014	EP1	Timing	SONI MDP	File Submission	MDP SONI PEG and MDP SONI NPEG meter data was not recieved by 14:00. Time stamp recorded as 14:16 for both whearas the meter data should have been collected at 14:00.	This was due to a delay with a meter import for EP1 D-1 TD 13/03/2014 by a Meter Provider.	MDP files received at 14:16.	Minor

Table 17 - Code Breaches – Data Providers

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SEMO - Pricing and Scheduling

14/03/2014	WD1	Quality	SEMO	File Submission	MIUN's for Moyle were incorrect for WD1 Trading Day 14/03/2014.	MIUN calculator produced incorrect MIUN data.	IT provided a revised MIUN file. This was uploaded to the CMS and MIUN's were published at 09:28 This was communicated to Participants.	Minor
15/03/2014	EA2	Timing	SEMO	System	There was a delay to the publication of EA2 EWIC MIUNs for Trading Day 16/03/2014 past the 13:00 deadline.	The MIUN calculator was unable to return accurate EWIC MIUNs for trading day 16/03/2014	MIUN calculator was unable to produce accurate MIUNs by 13:00 IT provided the zero file and the Contingency process was implemented. These were published at 13:12 A market message was sent to inform Participants of the revised MIUN file that was published	Minor
21/03/2014	WD1	Quality	SEMO	Operational	The Within Day 1 Market Schedule for Trading Day 21/03/2014 was cancelled within the Market Systems.	WD1 was not published by 09:30 due to submitted registration information for a new participant.	The Within Day 1 Market Schedule was cancelled in line with SEMO policy under SEMO policy.	Minor

Table 18 - Code Breaches – Pricing and Scheduling

SEMO – Settlements

06/03/2014	SE1	Timing	SEMO	Operational	Indicative Energy and VMOC Settlement Statements and Participant Information Reports (PIRs) for Settlement Day 05/03/2014 were delayed.	A registration issue resulted in the delay of the publication of SE1.	MRSO removed the Unit causing the issue from the Meter files to allow the completion of SE1. To resolve the issue a script will be deployed at Initial Settlement to back-date a registration change.	Minor
12/03/2014	SE2	Timing	SEMO	Operational	Initial VMOC Statements and Participant Information Reports for Settlement Day 05/03/2014 were delayed.	A script was required to back-date a registration change. This in turn caused a delay to SE2.	Initial VMOC Statements and Participant Information Reports for Settlement Day 05/03/2014 were published at 12:01 on Wednesday, 12/03/2014	Minor

Table 19 - Code Breaches – Settlements

SEMO - Funds Transfer

There were no issues to report in March 2014

Table 20 - Code Breaches – Funds Transfer

SEMO - Credit Management

There were no issues to report in March 2014

SEMO – Other

There were no issues to report in March 2014

9 Appendix B: List of Queries by Type

Data Queries

Summary Title	Description	ID	Logged On	Date sent to MP
Availability	On the 17th February this unit gu_400182 was undergoing a fuel changeover test over the period 19:27 to 19:44. The unit's availability was retrospectively declared down by Eirgrid in error for the duration of the test in trading periods 19:00 to 19:30 resulting in a reduced capacity payment for the unit	PT_400030	2014-03-06	2014-03-10

Table 21 - Data Queries

Settlement Queries

Summary Title	Description	ID	Logged On	Date sent to MP
MIUN issue	<p>Querying the MGEU_IA_NIMOYLE_I_NIMOYLE values in PIR for settlement date 17/12/2013 for trading periods 05:30-06:00. The values in the Error report in AMP are different to the PIR for this settlement date.</p> <p>Can you please confirm what values are applied to generator the MG EU value for these periods? For trading day 16/12/2013 (calendar day 17/12/2013) affecting trading period 6,2. The Net aggregated MIUN's we have in AMP for this period are 141.993 MW.</p>	PT_500069	2014-03-03	2014-03-06

Table 22 - Settlement Queries

10 Appendix C: List of All System Errors and Failures

The definitions of the statuses used for the List of All System Errors and Failures are:

- In Progress: Fix being identified and implemented.
- Resolved: Fix has been implemented, but reruns have not been performed.
- Closed: Required reruns have been performed and error-failure has been completely rectified.

Note: Items in the List of All System Errors and Failures that have status 'Closed' in this months report will not appear in subsequent Monthly Market Operator Reports as they are no longer open issues.

Issue No.	Description	Effect	Fixed from	Re-Pricing	Resettlement	Status
-	There were no system defects identified in March 2014 that required repricing or resettlement	-	-	-	-	-

Table 23 - List of System Errors and Failures

11 Appendix D: Details of Operational Timings

Market Schedule and Price Runs

Operational Day	EA1 Postings		EA2 Postings		WD1 Postings		EP1 Postings		EP2 Postings	
	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
01/03/2014	11:00	09:58:00	13:00	12:01	09:30	08:29	16:00	14:21	17:00	14:49
02/03/2014	11:00	09:55:00	13:00	11:48	09:30	08:22	16:00	14:36	17:00	14:44
03/03/2014	11:00	09:53:00	13:00	11:52	09:30	08:30	16:00	14:46	17:00	14:34
04/03/2014	11:00	10:03:00	13:00	12:07	09:30	08:35	16:00	14:52	17:00	14:31
05/03/2014	11:00	10:06:00	13:00	12:02	09:30	08:42	16:00	14:39	17:00	14:28
06/03/2014	11:00	10:01:00	13:00	12:03	09:30	08:23	16:00	14:38	17:00	14:34
07/03/2014	11:00	10:03:00	13:00	11:57	09:30	08:34	16:00	14:35	17:00	14:41
08/03/2014	11:00	10:07:00	13:00	11:50	09:30	08:28	16:00	14:25	17:00	14:34
09/03/2014	11:00	10:05:00	13:00	12:12	09:30	08:33	16:00	14:46	17:00	14:41
10/03/2014	11:00	09:55:00	13:00	11:49	09:30	08:39	16:00	14:45	17:00	14:41
11/03/2014	11:00	10:42:00	13:00	12:07	09:30	08:38	16:00	14:38	17:00	14:38
12/03/2014	11:00	10:06:00	13:00	12:06	09:30	08:40	16:00	14:49	17:00	14:37
13/03/2014	11:00	09:52:00	13:00	12:01	09:30	08:32	16:00	14:45	17:00	14:39
14/03/2014	11:00	10:07:00	13:00	12:30	09:30	08:22	16:00	14:42	17:00	14:35
15/03/2014	11:00	10:00:00	13:00	11:56	09:30	08:43	16:00	14:40	17:00	14:35
16/03/2014	11:00	10:02:00	13:00	12:03	09:30	08:32	16:00	14:41	17:00	14:38
17/03/2014	11:00	10:04:00	13:00	12:03	09:30	08:32	16:00	14:39	17:00	14:40
18/03/2014	11:00	10:10:00	13:00	11:54	09:30	08:34	16:00	14:39	17:00	14:28
19/03/2014	11:00	10:02:00	13:00	11:52	09:30	08:32	16:00	14:41	17:00	14:15
20/03/2014	11:00	10:00:00	13:00	11:57	09:30	08:25	16:00	14:44	17:00	14:47
21/03/2014	11:00	10:15:00	13:00	11:57	09:30	-	16:00	14:55	17:00	14:49
22/03/2014	11:00	10:01:00	13:00	12:02	09:30	08:12	16:00	14:18	17:00	14:45
23/03/2014	11:00	09:47:00	13:00	11:41	09:30	08:13	16:00	14:35	17:00	14:36
24/03/2014	11:00	09:41:00	13:00	11:42	09:30	08:27	16:00	14:53	17:00	14:40
25/03/2014	11:00	10:08:00	13:00	12:04	09:30	08:29	16:00	14:50	17:00	14:39
26/03/2014	11:00	09:59:00	13:00	12:14	09:30	08:18	16:00	14:40	17:00	14:32
27/03/2014	11:00	09:52:00	13:00	12:12	09:30	08:34	16:00	14:32	17:00	14:33
28/03/2014	11:00	10:05:00	13:00	12:00	09:30	08:38	16:00	14:43	17:00	14:49
29/03/2014	11:00	09:58:00	13:00	11:57	09:30	08:21	16:00	00:00	17:00	14:41
30/03/2014	11:00	09:53:00	13:00	11:54	09:30	08:39	16:00	00:00	17:00	14:45
31/03/2014	11:00	10:01:00	13:00	12:08	09:30	08:28	16:00	00:00	17:00	14:42

Table 24 – MSP Runs

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Settlement Runs

Trading Day	INDICATIVE				INITIAL			
	Target Date	Actual Date	Target Time	Actual Time	Trading Day	Actual Date	Target Time	Actual Time
01/03/2014	03/03/2014	03/03/2014	17:00	09:00	01/03/2014	07/03/2014	12:00	09:00
02/03/2014	03/03/2014	03/03/2014	17:00	15:32	02/03/2014	07/03/2014	12:00	08:54
03/03/2014	04/03/2014	04/03/2014	17:00	15:30	03/03/2014	10/03/2014	12:00	08:29
04/03/2014	05/03/2014	05/03/2014	17:00	16:05	04/03/2014	11/03/2014	12:00	09:22
05/03/2014	06/03/2014	06/03/2014	17:00	17:14	05/03/2014	12/03/2014	12:00	11:59
06/03/2014	07/03/2014	07/03/2014	17:00	15:26	06/03/2014	13/03/2014	12:00	07:28
07/03/2014	10/03/2014	10/03/2014	17:00	09:00	07/03/2014	14/03/2014	12:00	09:00
08/03/2014	10/03/2014	10/03/2014	17:00	09:00	08/03/2014	14/03/2014	12:00	09:00
09/03/2014	10/03/2014	10/03/2014	17:00	16:22	09/03/2014	14/03/2014	12:00	07:56
10/03/2014	11/03/2014	11/03/2014	17:00	15:35	10/03/2014	18/03/2014	12:00	09:52
11/03/2014	12/03/2014	12/03/2014	17:00	16:13	11/03/2014	18/03/2014	12:00	10:27
12/03/2014	13/03/2014	13/03/2014	17:00	16:02	12/03/2014	19/03/2014	12:00	08:05
13/03/2014	14/03/2014	14/03/2014	17:00	15:38	13/03/2014	20/03/2014	12:00	11:08
14/03/2014	18/03/2014	18/03/2014	17:00	09:00	14/03/2014	21/03/2014	12:00	09:00
15/03/2014	18/03/2014	18/03/2014	17:00	09:00	15/03/2014	21/03/2014	12:00	09:00
16/03/2014	18/03/2014	18/03/2014	17:00	09:00	16/03/2014	21/03/2014	12:00	07:53
17/03/2014	18/03/2014	18/03/2014	17:00	15:20	17/03/2014	24/03/2014	12:00	08:54
18/03/2014	19/03/2014	19/03/2014	17:00	15:21	18/03/2014	25/03/2014	12:00	08:39
19/03/2014	20/03/2014	20/03/2014	17:00	15:43	19/03/2014	26/03/2014	12:00	08:13
20/03/2014	21/03/2014	21/03/2014	17:00	15:37	20/03/2014	27/03/2014	12:00	08:22
21/03/2014	24/03/2014	24/03/2014	17:00	09:00	21/03/2014	28/03/2014	12:00	09:00
22/03/2014	24/03/2014	24/03/2014	17:00	09:00	22/03/2014	28/03/2014	12:00	09:00
23/03/2014	24/03/2014	24/03/2014	17:00	15:36	23/03/2014	28/03/2014	12:00	08:06
24/03/2014	25/03/2014	25/03/2014	17:00	15:55	24/03/2014	31/03/2014	12:00	08:31
25/03/2014	26/03/2014	26/03/2014	17:00	16:04	25/03/2014	01/04/2014	12:00	08:48
26/03/2014	27/03/2014	27/03/2014	17:00	15:44	26/03/2014	02/04/2014	12:00	08:09
27/03/2014	28/03/2014	28/03/2014	17:00	15:39	27/03/2014	03/04/2014	12:00	08:39
28/03/2014	31/03/2014	31/03/2014	17:00	09:00	28/03/2014	04/04/2014	12:00	09:00
29/03/2014	31/03/2014	31/03/2014	17:00	09:00	29/03/2014	04/04/2014	12:00	09:00
30/03/2014	31/03/2014	31/03/2014	17:00	16:01	30/03/2014	04/04/2014	12:00	07:54
31/03/2014	01/04/2014	01/04/2014	17:00	16:02	31/03/2014	07/04/2014	12:00	08:23

Table 25 - Settlement Runs

12 Appendix E: Imperfections Charge

This appendix provides daily data for the Constraint Payments, Uninstructed Imbalance Payments and Imperfections Charges, and as well as the weekly values of Make Whole Payments and Testing Charges.

The following table is updated to take account of the values calculated in the Initial Settlement runs only.

Historical information will be shown in Appendix E until completion of the current financial year. Information prior to that can be found in previous Monthly Market Operator Reports.

Date	Constraints Payments	Uninstructed Imbalances Payments	Imperfections Charges
01/01/2014	€955,074.54	€15,701.02	-€363,523.63
02/01/2014	€869,584.76	-€51,270.96	-€411,223.19
03/01/2014	€981,299.90	-€6,763.65	-€416,729.57
04/01/2014	€842,597.58	-€984.25	-€406,468.19
05/01/2014	€1,017,892.87	-€3,304.71	-€374,451.32
06/01/2014	€1,027,467.78	€69,008.95	-€421,209.86
07/01/2014	€1,131,050.74	-€4,313.68	-€429,731.89
08/01/2014	€652,565.38	-€39,328.22	-€457,907.14
09/01/2014	€748,152.68	-€40,827.41	-€453,780.43
10/01/2014	€803,817.65	-€48,315.21	-€448,048.96
11/01/2014	€915,704.71	-€4,318.18	-€411,522.40
12/01/2014	€921,530.28	-€9,195.15	-€379,307.86
13/01/2014	€641,244.74	-€20,649.97	-€453,955.42
14/01/2014	€570,633.32	-€31,654.28	-€466,747.71
15/01/2014	€789,788.53	-€3,878.25	-€443,384.59
16/01/2014	€619,904.29	-€24,560.52	-€456,869.59
17/01/2014	€515,211.70	-€66,689.58	-€454,608.47
18/01/2014	€520,405.35	-€19,031.76	-€421,586.87
19/01/2014	€808,100.39	-€9,045.86	-€397,800.00
20/01/2014	€917,028.91	-€62,048.37	-€448,388.85
21/01/2014	€976,768.66	-€27,263.63	-€444,554.65
22/01/2014	€617,107.10	-€48,174.53	-€447,356.40
23/01/2014	€636,348.17	€11,856.06	-€449,699.08
24/01/2014	€858,787.11	-€3,889.75	-€436,805.26
25/01/2014	€867,668.14	€24,013.08	-€387,936.33
26/01/2014	€1,067,111.91	€8,950.68	-€369,381.21
27/01/2014	€667,942.56	-€16,961.92	-€434,460.28
28/01/2014	€857,567.91	-€2,690.66	-€447,652.80
29/01/2014	€700,070.05	-€18,250.06	-€461,431.27
30/01/2014	€686,455.61	-€5,466.72	-€462,829.04
31/01/2014	€777,271.35	€2,344.09	-€442,761.53
01/02/2014	€1,092,287.94	€46,296.79	-€399,482.81
02/02/2014	€1,040,876.64	-€7,906.04	-€372,329.72
03/02/2014	€814,552.07	-€23,152.17	-€442,954.07
04/02/2014	€765,620.92	-€4,186.12	-€446,429.95
05/02/2014	€619,745.34	-€24,997.27	-€447,492.36
06/02/2014	€570,059.13	-€14,226.00	-€454,172.29
07/02/2014	€733,072.53	-€5,600.31	-€442,576.92

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08/02/2014	€1,126,907.52	€1,739.38	-€390,725.34
09/02/2014	€654,441.39	€49,019.47	-€374,840.33
10/02/2014	€769,918.90	-€26,132.58	-€448,629.96
11/02/2014	€743,530.15	€740.24	-€449,191.11
12/02/2014	€790,821.83	-€29,220.96	-€445,981.56
13/02/2014	€730,779.98	-€898.33	-€445,971.03
14/02/2014	€698,505.74	-€1,078.62	-€458,004.41
15/02/2014	€634,027.20	€15,043.38	-€395,023.34
16/02/2014	€566,490.77	-€9,244.53	-€388,347.11
17/02/2014	€650,193.75	-€11,780.63	-€447,842.88
18/02/2014	€546,435.98	-€32,788.64	-€454,115.28
19/02/2014	€661,463.66	€2,436.11	-€441,435.28
20/02/2014	€627,222.04	-€36,929.66	-€429,485.89
21/02/2014	€772,285.98	-€33,430.62	-€424,158.80
22/02/2014	€1,047,041.63	€15,965.37	-€384,643.79
23/02/2014	€647,688.10	€6,359.48	-€365,258.95
24/02/2014	€593,693.03	€32,810.10	-€427,977.07
25/02/2014	€673,092.66	€47,042.36	-€425,753.08
26/02/2014	€737,469.64	€33,371.98	-€427,771.92
27/02/2014	€599,427.86	€18,597.29	-€438,598.48
28/02/2014	€486,170.94	€35,027.71	-€436,398.07
01/03/2014	€551,273.11	€13,733.62	-€402,126.07
02/03/2014	€253,643.88	€21,061.91	-€380,791.02
03/03/2014	€838,469.31	€31,907.86	-€440,202.27
04/03/2014	€532,230.85	-€34,892.63	-€449,787.29
05/03/2014	€569,397.10	€23,555.80	-€438,585.32
06/03/2014	€627,047.33	€28,301.63	-€445,574.58
07/03/2014	€791,058.04	-€23,188.94	-€422,122.27
08/03/2014	€524,758.24	€10,428.20	-€373,550.80
09/03/2014	€757,796.75	-€45,810.91	-€384,189.33
10/03/2014	€554,422.76	-€50,527.70	-€435,033.51
11/03/2014	€490,320.26	-€80,176.23	-€441,302.05
12/03/2014	€474,930.61	-€50,381.14	-€448,528.36
13/03/2014	€535,105.11	-€90,832.92	-€452,732.25
14/03/2014	€750,264.06	-€16,885.72	-€425,233.91
15/03/2014	€565,699.81	€6,798.70	-€370,939.19
16/03/2014	€260,949.62	€8,107.37	-€352,376.53
17/03/2014	€564,851.76	€17,272.05	-€364,550.61
18/03/2014	€461,877.22	-€10,830.22	-€397,299.39
19/03/2014	€638,241.59	€2,103.82	-€404,183.93
20/03/2014	€366,615.71	-€20,983.02	-€414,658.34
21/03/2014	€596,761.02	-€1,539.05	-€422,392.61
22/03/2014	€421,180.67	€3,792.17	-€386,455.45
23/03/2014	€533,746.14	-€13,893.35	-€370,919.40
24/03/2014	€556,053.41	-€5,517.38	-€412,252.02
25/03/2014	€499,032.80	-€21,665.91	-€424,799.72
26/03/2014	€645,898.84	-€47,573.09	-€436,022.93
27/03/2014	€618,021.01	-€94,304.81	-€440,855.08
28/03/2014	€474,746.28	-€19,091.39	-€428,576.54
29/03/2014	€396,800.83	-€14,274.61	-€390,148.61
30/03/2014	€601,577.41	-€5,279.56	-€347,892.04
31/03/2014	€709,881.34	-€36,965.35	-€413,090.30

Table 26 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

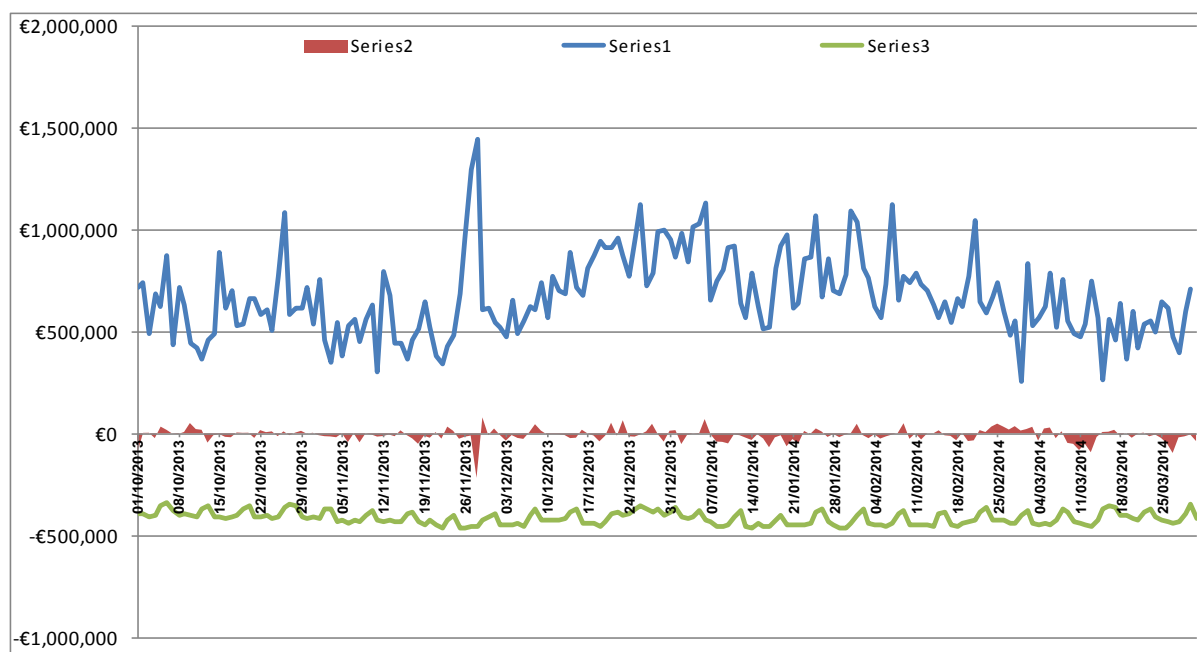


Figure 24 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

Week No	Make Whole Payments
39	€157,154.18
40	€100,559.86
41	€93,700.82
42	€34,755.70
43	€91,699.33
44	€48,763.34
45	€29,311.13
46	€51,580.95
47	€47,924.57
48	€18,836.02
49	€2,320.81
50	€50,370.62
51	€88,625.27
52	€80,442.97
1	€11,198.45
2	€3,215.89
3	€2,907.21
4	€45,212.77
5	€0.24
6	€0.21
7	€86,074.69
8	€65,438.76
9	€82,008.00
10	€58,736.16
11	€46,720.09
12	€154,971.87

Table 27 - Make Whole Payments

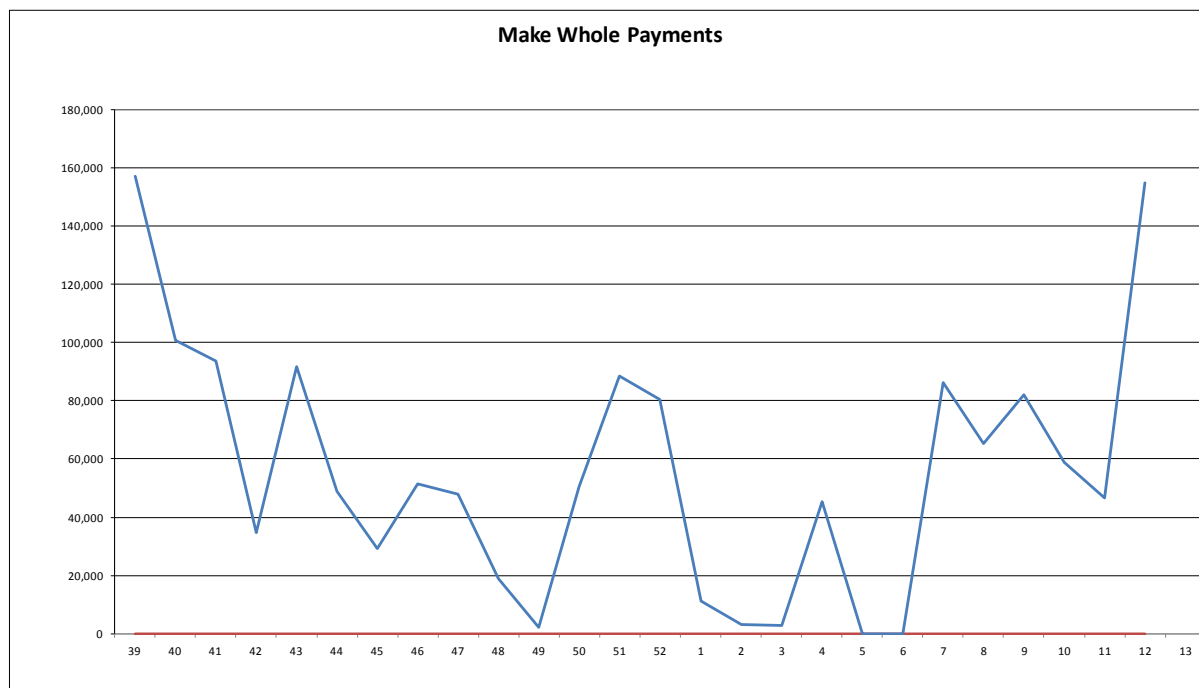


Figure 25 - Make Whole Payments

Week No	Testing Charges
39	€0.00
40	€0.00
41	€0.00
42	€0.00
43	€0.00
44	-€464.74
45	-€4,169.12
46	-€4,361.08
47	-€13,358.69
48	€0.00
49	-€983.42
50	€0.00
51	€0.00
52	€0.00
1	€0.00
2	€0.00
3	€6,382.50
4	€0.00
5	€0.00
6	€0.00
7	-€971.99
8	-€14,525.39
9	€0.00
10	-€10,047.37
11	€0.00
12	-€4,842.44

Table 28 - Testing Charges

Market Operator Monthly Report

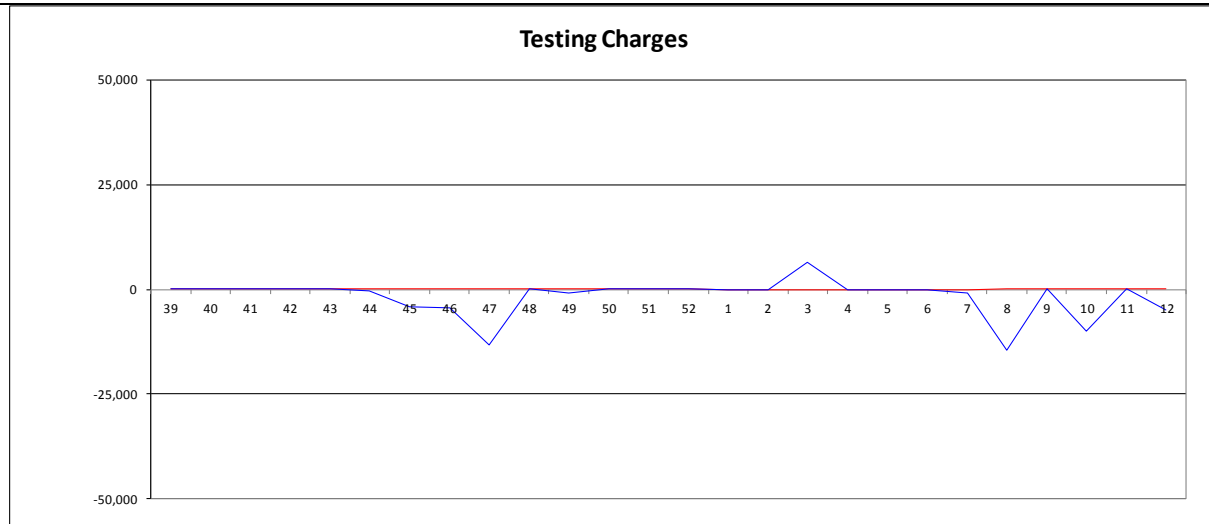


Figure 24 - Testing Charges

13 Appendix F: Default Commercial Offer Data Used

The table below lists for each unit the number of times in operations during March 2014 where the Commercial Offer Data was based on a Participant submission within the Market window, or based on Standing Data or Default Data submitted.

PNAME	RNAME	Manual	Adjusted	Standing	COUNT
PT_400116	DSU_401400			31	31
PT_400090	DSU_401270			1	1
PT_400101	DSU_401300			1	1
PT_400106	DSU_401330	7			7
PT_400090	DSU_401270	30			30
PT_400101	DSU_401300	31			31
PT_400054	GU_400620		1		1
PT_400066	GU_401370		9		9
PT_400066	GU_401410		9		9
PT_400066	GU_401420		9		9
PT_400024	GU_400120	31			31
PT_400024	GU_400121	31			31
PT_400026	GU_400140	31			31
PT_400030	GU_400180	36			36
PT_400030	GU_400181	36			36
PT_400030	GU_400182	36			36
PT_400030	GU_400183	36			36
PT_400030	GU_400200	36			36
PT_400030	GU_400201	36			36
PT_400030	GU_400202	36			36
PT_400030	GU_400203	36			36
PT_400030	GU_400210	36			36
PT_400030	GU_400211	36			36
PT_400030	GU_400220	36			36
PT_400030	GU_400221	36			36
PT_400030	GU_400240	36			36
PT_400030	GU_400250	36			36
PT_400030	GU_400251	36			36
PT_400030	GU_400252	36			36
PT_400030	GU_400260	36			36
PT_400030	GU_400270	42			42
PT_400030	GU_400271	37			37
PT_400030	GU_400272	38			38
PT_400030	GU_400280	36			36
PT_400030	GU_400281	36			36
PT_400030	GU_400290	36			36
PT_400030	GU_400300	36			36
PT_400030	GU_400311	38			38
PT_400030	GU_400323	36			36
PT_400030	GU_400360	36			36
PT_400030	GU_400361	36			36
PT_400030	GU_400362	37			37
PT_400030	GU_400363	37			37
PT_400030	GU_400370	36			36
PT_400030	GU_400850	37			37

Market Operator Monthly Report

PT_400032	GU_400380	31		31
PT_400032	GU_400430	31		31
PT_400034	GU_400940	31		31
PT_400034	GU_401090	31		31
PT_400034	GU_401440	31		31
PT_400035	GU_400480	55		55
PT_400037	GU_400500	33		33
PT_400041	GU_400530	54		54
PT_400044	GU_400540	55		55
PT_400054	GU_400620	31		31
PT_400055	GU_400630	31		31
PT_400062	GU_401310	7		7
PT_400064	GU_400750	31		31
PT_400064	GU_400751	31		31
PT_400064	GU_400752	31		31
PT_400064	GU_400753	31		31
PT_400064	GU_400754	31		31
PT_400064	GU_400760	31		31
PT_400064	GU_400761	31		31
PT_400064	GU_400770	31		31
PT_400064	GU_400771	31		31
PT_400064	GU_400780	31		31
PT_400064	GU_400781	31		31
PT_400075	GU_400930	81		81
PT_400077	GU_400950	31		31
PT_400078	GU_401010	31		31
PT_400078	GU_401011	31		31
PT_400087	GU_401230	3		3
PT_500024	GU_500040	38		38
PT_500024	GU_500041	31		31
PT_500027	GU_500130	82		82
PT_500027	GU_500131	82		82
PT_500027	GU_500140	82		82
PT_500040	GU_500280	82		82
PT_500040	GU_500281	31		31
PT_500040	GU_500282	31		31
PT_500040	GU_500283	31		31
PT_500040	GU_500284	31		31
PT_500045	GU_500820	31		31
PT_500045	GU_500821	31		31
PT_500045	GU_500822	31		31
PT_500045	GU_500823	31		31
PT_500045	GU_500824	31		31
PT_500045	GU_500825	31		31
PT_500048	GU_500901	31		31
PT_500048	GU_500902	26		26
PT_500048	GU_500903	26		26
PT_500048	GU_500904	26		26
PT_500050	GU_501040	26		26
PT_500050	GU_501050	19		19
PT_500050	GU_501150	26		26
PT_500050	GU_501190	31		31

Market Operator Monthly Report

PT_500053	GU_501130	31			31
PT_500066	GU_501210	31			31
PT_400021	GU_400021			31	31
PT_400021	GU_400050			31	31
PT_400021	GU_400060			31	31
PT_400021	GU_400070			31	31
PT_400021	GU_400080			31	31
PT_400021	GU_400591			31	31
PT_400021	GU_400600			31	31
PT_400021	GU_400910			31	31
PT_400021	GU_400920			31	31
PT_400021	GU_401080			31	31
PT_400025	GU_400130			31	31
PT_400030	GU_400310			31	31
PT_400038	GU_400550			31	31
PT_400050	GU_400650			31	31
PT_400050	GU_400660			31	31
PT_400050	GU_401000			31	31
PT_400050	GU_401060			31	31
PT_400050	GU_401150			31	31
PT_400050	GU_401240			31	31
PT_400050	GU_401250			31	31
PT_400062	GU_400730			31	31
PT_400062	GU_400731			31	31
PT_400062	GU_400840			31	31
PT_400066	GU_401320			31	31
PT_400066	GU_401370			23	23
PT_400066	GU_401410			23	23
PT_400066	GU_401420			23	23
PT_400066	GU_401430			31	31
PT_400082	GU_401100			31	31
PT_400087	GU_401230			28	28
PT_400123	GU_401470			31	31
PT_500021	GU_500010			31	31
PT_500021	GU_500740			31	31
PT_500021	GU_501160			31	31
PT_500032	GU_500211			31	31
PT_500032	GU_501120			31	31
PT_500039	GU_500270			31	31
PT_500044	GU_500720			31	31
PT_500047	GU_500790			31	31
PT_500048	GU_500901			11	11
PT_500048	GU_500902			11	11
PT_500048	GU_500903			11	11
PT_500061	GU_501170			31	31
PT_500062	GU_501180			31	31
PT_400021	I_ROIEWIC	34			34
PT_500024	I_NIMOYLE	31			31
PT_500021	I_NIMOYLE	35			35
PT_500069	I_NIMOYLE	85			85
PT_500058	I_NIMOYLE	31			31
PT_500031	I_NIMOYLE	31			31

Market Operator Monthly Report

PT_400096	I_ROIEWIC	87			87
PT_500037	I_NIMOYLE	31			31
PT_400113	I_ROIEWIC	31			31
PT_400115	I_ROIEWIC	31			31
PT_400108	I_ROIEWIC	43			43
PT_500070	I_NIMOYLE	34			34
PT_400030	I_ROIEWIC	31			31
PT_400099	I_ROIEWIC	31			31
	Total	3812	28	1310	5150
	Percentage	74.02%	0.54%	25.44%	100%

Table 29 - Default Commercial Data Used

14 Appendix G: Total Charges and Payments Data

The tables below list historical values for Total Charges and Total Payments in the SEM by month and currency since start of the SEM.

- Month of inclusion based on invoice date.
- Amounts are after application of Settlement Reallocation.

Market		Energy	Capacity	Market Operator	M+4 Energy	M+4 Capacity	M+4 Market Operator	M+13 Energy	M+13 Capacity	M+13 Market Operator	Ad-hoc Energy	Ad-hoc Capacity	Ad-hoc Market Operator	Total
Mar-13	ROI	£127,314,463.58	£23,722,798.04	£2,291,239.29	£864,841.00	£174,940.58	£8,550.98	£186,631.48	£857.64	£2,030.63	£975.81	£35,849.23	£0.00	154,603,178.26
	NI	£50,188,227.14	£7,067,652.16	£670,314.56	£168,687.60	£25,656.56	£1,296.87	£192,392.70	£19,921.59	£1,759.69	£326.36	£40,303.36	£0.00	59,176,538.59
Apr-13	ROI	£94,898,266.67	£24,603,683.43	£1,748,803.30	£804,681.41	£212,498.40	£9,193.22	£80,220.96	£20,929.63	£916.08	£48.99	£0.00	£0.00	122,379,242.09
	NI	£37,421,753.53	£7,712,011.14	£502,580.98	£118,654.43	£33,935.90	£1,120.40	£148,272.63	£40,588.36	£1,442.34	£0.00	£0.00	£0.00	45,980,359.71
May-13	ROI	£75,322,037.00	£18,225,439.33	£1,992,774.31	£1,158,818.37	£146,111.71	£15,573.02	£111,887.20	£28,127.61	£1,193.04	£152,210.12	£652.17	£0.00	97,154,823.88
	NI	£31,159,914.52	£5,593,300.54	£573,502.76	£82,329.55	£16,818.23	£626.00	£137,450.86	£29,792.11	£1,305.88	£59,854.79	£266.11	£0.00	37,655,161.35
Jun-13	ROI	£53,639,376.33	£23,772,504.60	£1,559,489.89	£540,072.04	£142,565.06	£7,016.24	£102,851.57	£13,071.70	£771.48	£998.47	£0.00	£0.00	79,778,717.38
	NI	£23,668,207.38	£5,028,617.48	£449,494.74	£57,959.79	£29,005.42	£934.94	£79,008.70	£15,600.91	£697.05	£156,734.88	£0.00	£0.00	29,486,261.29
Jul-13	ROI	£62,352,631.32	£18,204,333.81	£1,583,236.61	£975,631.58	£172,502.45	£7,848.20	£63,562.31	£16,373.37	£690.66	£904,389.43	£100,791.99	£0.00	84,381,991.73
	NI	£23,916,092.51	£6,533,901.21	£432,681.38	£92,026.95	£16,773.81	£694.39	£14,400.35	£3,081.82	£130.14	£204,040.13	£152.19	£0.00	31,213,974.88
Aug-13	ROI	£56,496,937.96	£18,035,531.87	£1,912,592.26	£627,109.44	£97,756.86	£9,727.88	£15,214,588.11	£12,273.00	£808.64	£0.00	£0.00	£0.00	92,407,326.02
	NI	£27,126,182.07	£5,775,203.97	£544,995.28	£40,928.60	£52,444.19	£3,674.11	£6,235,909.64	£5,483.53	£223.46	£0.00	£0.00	£0.00	39,785,044.85
Sep-13	ROI	£55,820,919.05	£17,453,995.09	£1,590,840.77	£871,046.03	£104,726.26	£5,239.42	£999,727.04	£165,703.71	£11,019.16	£0.00	£324,142.04	£0.00	77,347,358.57
	NI	£24,090,106.60	£5,421,565.87	£449,859.41	£232,772.49	£25,268.64	£1,265.21	£119,141.06	£13,356.37	£112.60	£0.00	£78,558.74	£0.00	30,432,006.99
Oct-13	ROI	£63,823,874.40	£19,230,805.66	£1,459,680.53	£665,669.95	£112,389.91	£4,962.50	£1,056,400.80	£25,936.14	£883.81	£1,141,610.70	£0.00	£0.00	87,522,214.40
	NI	£25,790,053.14	£5,439,039.21	£415,013.56	£77,962.24	£11,759.56	£437.51	£286,637.75	£5,978.86	£356.54	£375,245.80	£0.00	£0.00	32,401,884.17
Nov-13	ROI	£94,237,410.27	£26,111,830.04	£1,768,924.89	£1,095,479.88	£186,255.41	£10,667.03	£1,203,541.15	£58,436.00	£1,881.53	£2,162,845.35	£0.00	£0.00	126,837,271.55
	NI	£40,120,956.32	£9,383,627.04	£512,345.05	£79,171.25	£13,455.28	£753.82	£304,333.70	£18,778.73	£614.32	£591,913.98	£0.00	£0.00	51,025,949.49
Dec-13	ROI	£59,731,699.86	£27,864,400.43	£1,135,385.04	£777,997.00	£175,711.33	£8,515.85	£874,795.89	£44,746.05	£1,825.43	£0.00	£0.00	£0.00	90,615,076.88
	NI	£26,108,999.75	£9,220,782.35	£325,646.22	£58,193.58	£77,917.35	£571.58	£137,253.25	£14,599.87	£487.47	£0.00	£0.00	£0.00	35,944,451.42
Jan-14	ROI	£114,421,340.65	£24,793,160.86	£2,129,762.27	£798,055.27	£127,352.61	£7,984.34	£204,139.96	£36,418.59	£1,561.86	£473,584.35	£0.00	£0.00	142,993,360.76
	NI	£51,824,850.54	£9,142,377.84	£617,870.56	£62,006.75	£10,003.11	£595.49	£67,335.86	£14,491.45	£574.85	£141,821.26	£0.00	£0.00	61,881,927.71
Feb-14	ROI	£66,102,607.16	£27,393,747.26	£1,496,376.58	£305,733.65	£76,911.71	£2,819.89	£479,013.35	£22,451.87	£9,128.65	£381,194.91	£0.00	£0.00	96,269,905.03
	NI	£31,130,342.59	£9,846,758.26	£422,869.99	£25,720.60	£3,900.39	£240.37	£187,918.65	£15,303.03	£942.92	£235.51	£0.00	£0.00	41,634,232.31
Mar-14	ROI	£70,041,213.49	£26,285,336.21	£1,445,159.95	£261,906.17	£61,216.38	£2,226.19	£92,283.95	£30,407.22	£960.16	£0.00	£0.00	£0.00	98,224,709.72
	NI	£30,175,818.70	£9,293,564.48	£406,620.40	£46,940.79	£7,639.04	£408.77	£52,408.32	£11,933.67	£470.83	£0.00	£0.00	£0.00	39,995,805.00

Table 30 - Total Charges by Month

Market Operator Monthly Report

Market		Energy	Capacity	M+4 Energy	M+4 Capacity	M+4 Market Operator	M+13 Energy	M+13 Capacity	M+13 Market Operator	Ad-hoc Energy	Ad-hoc Capacity	Ad-hoc Market Operator	Total
Mar-13	ROI	€132,581,329.95	€23,933,777.63	€854,530.25	€170,044.84	€9,205.75	€186,261.22	€17,546.38	€2,030.72	€102,825.18	€34,807.36	€0.00	€157,892,359.28
	NI	€46,332,187.69	€7,780,431.46	€185,025.05	€29,721.69	€1,214.91	€192,287.94	€5,154.36	€1,759.68	€0.00	€40,546.06	€0.00	€54,568,328.84
Apr-13	ROI	€100,948,367.03	€23,458,654.50	€807,793.67	€206,615.70	€7,720.47	€80,292.46	€20,961.03	€915.98	€15,278.90	€0.00	€0.00	€125,546,599.74
	NI	€35,045,424.03	€8,627,034.92	€119,014.70	€39,049.40	€1,115.60	€148,303.90	€40,600.32	€1,442.59	€132,224.24	€0.00	€0.00	€44,154,209.70
May-13	ROI	€79,510,881.07	€17,301,213.34	€1,115,672.13	€140,740.46	€14,573.32	€112,291.28	€35,779.70	€1,189.42	€224,599.73	€414.39	€0.00	€98,457,354.84
	NI	€31,347,092.48	€6,357,878.47	€111,377.22	€21,468.44	€1,305.48	€139,334.16	€23,234.36	€1,305.31	€1,089.56	€473.49	€0.00	€38,004,558.97
Jun-13	ROI	€62,856,676.93	€22,620,279.73	€495,012.84	€137,864.81	€7,303.60	€61,553.46	€12,972.87	€771.42	€7,168.09	€0.00	€0.00	€86,199,603.75
	NI	€20,005,532.91	€5,952,891.95	€123,662.20	€32,894.53	€1,059.57	€67,817.83	€15,562.24	€697.08	€160,132.43	€0.00	€0.00	€26,360,250.74
Jul-13	ROI	€64,373,421.59	€18,247,432.96	€964,041.86	€173,902.58	€7,906.35	€55,507.11	€17,916.41	€690.80	€924,828.19	€100,969.43	€0.00	€84,866,617.28
	NI	€24,434,329.71	€6,507,406.51	€34,802.99	€15,679.58	€710.78	€12,978.92	€1,777.48	€130.12	€206,821.52	€0.00	€0.00	€31,274,637.61
Aug-13	ROI	€63,981,400.27	€17,490,496.02	€574,908.31	€103,763.23	€10,083.25	€16,006,162.20	€10,709.76	€808.95	€986.69	€0.00	€0.00	€98,179,318.68
	NI	€23,798,215.28	€6,256,493.76	€56,417.87	€47,293.31	€2,768.68	€5,757,671.12	€6,849.67	€223.45	€18,449.41	€0.00	€0.00	€35,944,382.55
Sep-13	ROI	€62,051,092.84	€16,936,760.25	€1,068,679.90	€128,081.30	€7,144.86	€971,541.05	€151,818.04	€11,020.17	€0.00	€416,852.38	€0.00	€81,742,990.79
	NI	€21,229,997.89	€5,817,250.40	€156,880.27	€5,515.98	€108.46	€19,000.09	€25,023.77	€112.65	€0.00	€92.64	€0.00	€27,253,982.15
Oct-13	ROI	€70,147,828.86	€18,147,894.98	€704,498.56	€112,615.82	€6,476.59	€907,795.23	€25,996.67	€883.97	€1,040,063.76	€0.00	€0.00	€91,094,054.44
	NI	€24,161,387.51	€6,338,740.34	€71,964.41	€11,643.56	€445.89	€216,015.53	€5,767.60	€356.54	€303,081.27	€0.00	€0.00	€31,109,402.65
Nov-13	ROI	€101,727,467.69	€26,117,243.83	€1,224,763.25	€189,998.42	€12,263.50	€1,215,831.35	€57,206.41	€1,470.22	€2,187,635.43	€0.00	€0.00	€132,733,880.10
	NI	€38,593,632.08	€9,396,822.98	€111,667.01	€10,330.33	€754.66	€405,512.07	€19,818.44	€503.29	€523,998.04	€0.00	€0.00	€49,063,038.90
Dec-13	ROI	€65,016,104.57	€28,265,983.93	€814,481.63	€237,772.30	€8,560.54	€742,019.49	€45,101.88	€1,753.62	€0.00	€0.00	€0.00	€95,131,777.96
	NI	€26,883,033.60	€8,854,167.97	€62,225.77	€25,458.47	€563.46	€254,389.50	€14,183.48	€467.80	€0.00	€0.00	€0.00	€36,094,490.05
Jan-14	ROI	€134,009,133.84	€23,642,517.67	€793,440.19	€126,432.23	€7,824.65	€221,578.57	€36,894.00	€1,646.36	€479,971.01	€0.00	€0.00	€159,319,438.52
	NI	€51,714,479.92	€10,157,332.65	€82,843.03	€10,154.76	€543.56	€66,035.81	€14,046.97	€605.11	€109,684.36	€0.00	€0.00	€62,155,726.17
Feb-14	ROI	€78,679,881.12	€26,819,095.36	€304,687.52	€76,805.50	€2,536.46	€531,739.65	€29,343.21	€10,348.43	€443,421.38	€0.00	€0.00	€106,897,859.63
	NI	€29,747,186.53	€10,347,544.45	€37,918.21	€4,082.15	€214.26	€179,315.25	€9,737.45	€350.80	€3.55	€0.00	€0.00	€40,326,352.65
Mar-14	ROI	€75,149,006.14	€26,180,620.54	€259,644.98	€60,397.08	€2,170.67	€127,303.70	€28,200.28	€960.40	€0.00	€0.00	€0.00	€101,808,303.79
	NI	€29,749,446.42	€9,292,032.85	€46,950.40	€8,326.93	€408.65	€52,017.29	€13,760.80	€471.08	€0.00	€0.00	€0.00	€39,163,414.42

Table 31 - Total Payments by Month

15 Appendix H: Full Balancing Costs

Historical figures for full Balancing Costs of both the Trading and Capacity Markets, for the current financial year (October to September), are provided below. Information related to periods before this is available in previous Monthly Market Operator Reports.

- Positive values indicate Payments were greater than Charges.
- Negative values indicate Charges were greater than Payments.

Trading Market

Date Of Invoice	Week No	SEM Balancing Costs	VAT Balancing Costs
04/10/2013	38	-€674,643.65	-€7,304.11
11/10/2013	39	€1,470,454.75	€282,967.81
18/10/2013	40	€1,565,540.72	€261,420.05
25/10/2013	41	€1,216,501.47	-€203,049.68
01/11/2013	42	€1,582,640.50	€227,924.39
08/11/2013	43	€2,175,993.38	€368,919.09
15/11/2013	44	€234,229.47	€89,641.72
22/11/2013	45	€893,912.83	€182,707.89
29/11/2013	46	€112,506.60	€1,606.89
06/12/2013	47	€2,647,032.97	€215,777.46
13/12/2013	48	€752,640.18	€133,576.36
20/12/2013	49	€1,841,603.06	€263,539.44
03/01/2014	50	€2,846,523.20	€390,127.91
03/01/2014	51	€3,745,323.83	€500,276.98
10/01/2014	52	€3,597,778.03	€450,932.98
17/01/2014	1	€3,228,601.37	€473,806.13
24/01/2014	2	€1,326,598.20	€473,806.13
31/01/2014	3	€2,554,714.89	€273,646.36
07/02/2014	4	€2,844,930.59	€413,677.68
14/02/2014	5	€2,595,824.97	€344,267.69
21/02/2014	6	€2,011,856.07	€289,132.53
28/02/2014	7	€1,795,332.18	€260,445.50
07/03/2014	8	€1,243,165.04	€640,903.32
14/03/2014	9	€842,764.84	€498,771.98
21/03/2014	10	€566,483.84	€51,979.84
28/03/2014	11	€604,404.46	€287,653.95

Table 32 – Full Balancing Costs for Trading Charges and Payments

Note: SEM Balancing Costs are provided based on daily exchange rates; VAT Balancing Costs are based on the Invoicing Date Trading Day exchange rate. VAT Balancing costs exclude Currency Cost related VAT.

Capacity Market

Invoice Month	SEM Balancing Costs	VAT Balancing Costs
October 2013	-€304.76	-€94.05
November 2013	-€372.56	€2,045.28
December 2013	-€394.40	€-454.73
January 2014	-€424.40	-€1,164.62
February 2014	-€330.78	-€1,955.12
March 2014	-€332.7	€5,757.11

Table 33 - Balancing Costs for Capacity Settlement

Note: SEM Capacity Balancing Costs and VAT Balancing Costs are provided based on Annual Capacity exchange rate. VAT Balancing costs exclude Currency Cost related VAT.

16 Appendix I: MSP Algorithms

The Market Operator has two different certified solvers used to determine Unit Commitment. These solvers use the Lagrangian Relaxation (LR) and Mixed Integer Programming (MIP) methodologies.

The primary algorithm used in the SEM is Lagrangian Relaxation (LR). Under certain schedule outcomes this solution is compared to results achieved using MIP. The SEMO policy on the use of MIP has been updated and is available from the SEMO website [here](#).

Historical information on runs and dates where the MIP algorithm has been used for published results is provided below.

Month	Ex-Ante	Ex-Ante 2	Ex-Post Indicative	Ex-Post Initial	Within Day
September 2012	-	-	-	-	14/09/2012
October 2012	-	-	14/10/2012	07/10/2012 21/10/2012	-
November 2012	-	01/11/2012	29/11/2012 30/11/2012	29/11/2012	-
December 2012	-	-	06/12/2012 28/12/2012	02/12/2012 16/12/2012	-
January 2013	-	-	22/01/2013 31/01/2013	08/01/2013 25/01/2013 26/01/2013	06/01/2013
February 2013	10/02/2013	01/02/2013	-	03/02/2013	06/02/2013 18/02/2013
March 2013	05/03/2013 18/03/2013	12/03/2013 19/03/2013	11/03/2013 18/03/2013 26/03/2013 29/03/2013	11/03/2013 26/03/2013	11/03/2013 21/03/2013 20/03/2013 30/03/2013
April 2013	-	-	-	-	09/04/2013 29/04/2013

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Month	Ex-Ante	Ex-Ante 2	Ex-Post Indicative	Ex-Post Initial	Within Day
May 2013	-	-	-	-	-
June 2013	-	18/06/2013	-	-	-
July 2013	-	-	-	25/07/2013	16/07/2013
August 2013	-	13/08/2013	14/08/2013	-	05/08/2013
September 2013	-	24/09/2013	05/09/2013	12/09/2013	03/09/2013 30/09/2013
October 2013	-	-	30/10/2013	07/10/2013, 24/10/2013 & 30/10/2013	-
November 2013	-	-	14/11/2013 20/11/2013	14/11/2013	17/11/2013 30/11/2013
December 2013	02/12/2013 03/12/2013	02/12/2013	02/12/2013 21/12/2013	-	19/12/2013
January 2014	07/01/2014	-	05/01/2014 19/01/2014	04/01/2014 19/01/2014 21/01/2014	-
February 2014	26/02/2014	-	-	-	-
March 2014	-	26/03/2014 27/03/2014	15/03/2014 27/03/2014	22/03/2014	13/03/2014

Table 34 - MIP Algorithms

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Operational Date	Trade Date	Run Type	LR Peak SMP	MIP Peak SMP	Published
04/03/2013	05/03/2013	EA1	€586.55	€301.78	MIP
11/03/2013	11/03/2013	WD1	€629.46	€333.37	MIP
11/03/2013	12/03/2013	EA2	€561.28	€221.27	MIP
12/03/2013	11/03/2013	EP1	€1,350.64	€699.49	MIP
15/03/2013	11/03/2013	EP2	€1,350.64	€699.49	MIP
17/03/2013	18/03/2013	EA1	€576.04	€346.00	MIP
18/03/2013	19/03/2013	EA2	€682.41	€346.00	MIP
19/03/2013	18/03/2013	EP1	€576.04	€372.23	MIP
20/03/2013	24/03/2013	EP2	€625.32	€168.48	MIP
21/03/2013	21/03/2013	WD1	€596.97	€259.45	MIP
27/03/2013	26/03/2013	EP1	€508.83	€265.65	MIP
30/03/2013	30/03/2013	WD1	€556.86	€396.00	MIP
30/03/2013	29/03/2013	EP1	€732.81	€414.64	MIP
30/03/2013	26/03/2013	EP2	€509.19	€265.65	MIP
09/04/2013	09/04/2013	WD1	€710.75	€123.59	MIP
29/04/2013	29/04/2013	WD1	€1000.00	€168.92	MIP
17/06/2013	18/06/2013	EA2	€576.24	€84.08	MIP
16/07/2013	16/07/2013	WD1	583.17	48.11	MIP
29/07/2013	25/07/2013	EP2	€591.29	€97.59	MIP
05/08/2013	05/08/2013	WD1	€1,000	€47.02	MIP
12/08/2013	13/08/2013	EA2	€591.14	€91.37	MIP
15/08/2013	14/08/2013	EP1	€590.51	€79.91	MIP
03/09/2013	03/09/2013	WD1	€591.42	€96.56	MIP
06/09/2013	05/09/2013	EP1	€598.70	€116.29	MIP
16/09/2013	12/09/2013	EP2	€1000.00	€313.90	MIP
23/09/2013	24/09/2013	EA2	€609.58	€98.56	MIP
30/09/2013	30/09/2013	WD1	-€100.00	€31.47	MIP
11/10/2013	07/10/2013	EP2	€1000.00	€77.71	MIP
28/10/2013	24/10/2013	EP2	€517.40	€517.40	MIP
31/10/2013	30/10/2013	EP1	€596.88	€363.43	MIP
03/11/2013	30/10/2013	EP2	€596.88	€363.43	MIP
15/11/2013	14/11/2013	EP1	€555.85	€511.00	MIP
18/11/2013	14/11/2013	EP2	€679.09	€511.00	MIP
17/11/2013	17/11/2013	WD1	€638.64	€572.75	MIP
21/11/2013	20/11/2013	EP1	€ -100.00	€268.28	MIP
30/11/2013	30/11/2013	WD1	€568.78	€283.21	MIP
01/12/2013	02/12/2013	EA1	€569.78	€264.13	MIP
01/12/2013	02/12/2013	EA2	€569.78	€265.85	MIP
02/12/2013	02/12/2013	WD1	€651.62	€243.25	MIP
02/12/2013	03/12/2013	EA1	€1000.00	€311.25	MIP
21/12/2013	21/12/2013	WD1	€637.14	€308.15	MIP
23/12/2013	19/12/2013	EP2	€633.99	€371.89	MIP
08/01/2014	04/01/2014	EP2	€683.07	€550.00	MIP
06/01/2014	05/01/2014	EP1	€683.07	€550.86	MIP
06/01/2014	07/01/2014	EA1	€609.67	€238.04	MIP
20/01/2014	19/01/2014	EP1	€678.86	€592.00	MIP
23/01/2014	19/01/2014	EP2	€678.86	€592.00	MIP
25/01/2014	21/01/2014	EP2	€683.13	€405.24	MIP

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26/02/2014	27/02/2014	EA1	€567.34	€172.40	MIP
13/03/2014	09/03/2014	EP2	€1000.00	€359.19	MIP
15/03/2014	15/03/2014	WD1	€1166.98	€101.84	MIP
22/03/2014	21/03/2014	EP1	€583.98	€337.87	MIP
26/03/2014	27/03/2014	EA2	€1000.00	€337.87	MIP
27/03/2014	27/03/2014	WD1	€1000.00	€486.54	MIP
27/03/2014	28/03/2014	EA2	€1000.00	€179.49	MIP

Table 35 - MIP Vs LR Peak Price Comparison

