



Market Operator Monthly Report

February 2015

Table of Contents

1 EXECUTIVE SUMMARY	4
2 MONTHLY STATISTICS	5
CODE BREACHES	5
JOINING AND TERMINATING PARTIES AND UNITS	6
SUSPENSION OF PARTICIPANTS	6
3 FINANCIAL STATISTICS	7
TOTAL CHARGES FOR EACH CURRENCY	7
TOTAL PAYMENTS FOR EACH CURRENCY	8
TOTAL BALANCING COSTS	8
TOTAL CURRENCY COSTS	10
CUMULATIVE IMPERFECTIONS COSTS Vs BUDGET	11
FINANCIAL CHANGES BETWEEN INITIAL SETTLEMENT AND SUBSEQUENT RERUNS	12
3.1.1 Energy Market	12
3.1.2 Capacity Market	16
4 HELPDESK CALL STATISTICS	21
5. DISPUTES AND QUERIES	22
5.1.2 Data Queries	22
5.1.3 Settlement Queries	22
UNRESOLVED QUERIES	23
6. CENTRAL SYSTEMS	24
PROPORTION OF DEFAULT DATA USED	24
PROPORTION OF ESTIMATED METER DATA USED IN INITIAL SETTLEMENT AND RESETTLEMENT	24
LIST OF SYSTEM ERRORS AND RE-RUNS	24
6.1.1 Re-Pricing and Resettlement Runs	24
6.1.2 System Errors	24
6.2 OPERATIONAL TIMINGS	25
6.2.1 MSP Postings February 2015	25
6.2.2 MSP Algorithms	28
6.2.3 Settlement Postings February 2015	29
6.5 MARKET SYSTEM RELEASES	30
6.5.1 Release SEM R2.6.0 (Proposed Deployment: April 2015)	30
7 OCCASIONAL COMPONENTS	31
7.1 DISASTER RECOVERY/BUSINESS CONTINUITY TESTS	31
7.3 COMMUNICATIONS OR SYSTEMS FAILURES	31
7.4 DENIAL OF SERVICE ATTACKS	31
7.5 SUBMISSION OF PARAMETERS TO RAs FOR APPROVAL	31
8 APPENDIX A: DETAIL OF CODE BREACHES	32
MARKET PARTICIPANT	32
DATA PROVIDER	32
SEMO - PRICING AND SCHEDULING	33
SEMO – SETTLEMENTS	33
SEMO - FUNDS TRANSFER	33
SEMO - CREDIT MANAGEMENT	34
SEMO – OTHER	34
9 APPENDIX B: LIST OF QUERIES BY TYPE	35
DATA QUERIES	35
SETTLEMENT QUERIES	35
10 APPENDIX C: LIST OF ALL SYSTEM ERRORS AND FAILURES	36
11 APPENDIX D: DETAILS OF OPERATIONAL TIMINGS	37

Market Operator Monthly Report

MARKET SCHEDULE AND PRICE RUNS.....	37
SETTLEMENT RUNS	38
12 APPENDIX E: IMPERFECTIONS CHARGE.....	39
13 APPENDIX F: DEFAULT COMMERCIAL OFFER DATA USED	45
14 APPENDIX G: TOTAL CHARGES AND PAYMENTS DATA.....	49
15 APPENDIX H: FULL BALANCING COSTS.....	51
TRADING MARKET	51
CAPACITY MARKET.....	51
16 APPENDIX I: MSP ALGORITHMS	53

1 Executive Summary

This Single Electricity Market Operator's (SEMO) report covers the month of operation of February 2015 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 February 2015, Settlements had five late publication as per the Trading and Settlement code for Indicative Settlement.

142 general queries were received in February 2015. During the same period 152 general queries were resolved.

There were nine defaults by Participants during February 2015. The largest of these was a Capacity Adhoc €270.72 invoice which was remedied on the same 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		-	-
Market Participants	Pricing & Scheduling	-	-
	Settlement	-	-
	Funds Transfer	9	-
	Credit Risk Management	2	-
SEMO	Pricing & Scheduling	-	3
	Settlement	1	4
	Funds Transfer	-	-
	Credit Risk Management	-	-
	Other	-	-
Total		12	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

No Party joined the Market in February 2015.

There were no terminating parties in February 2015.

One new unit became effective in the Market in February 2015.

- Interconnector Unit Vayu - PPMG - (PT_400141/Interconnector)

There was one unit de-registered from the Market in February 2015.

- First Electric Ireland - APTG - (PT_400058/GU_400680)

One Supplier unit became effective in the Market in February 2015.

- Panda Power Ltd (SU_400185/PT_400161)

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

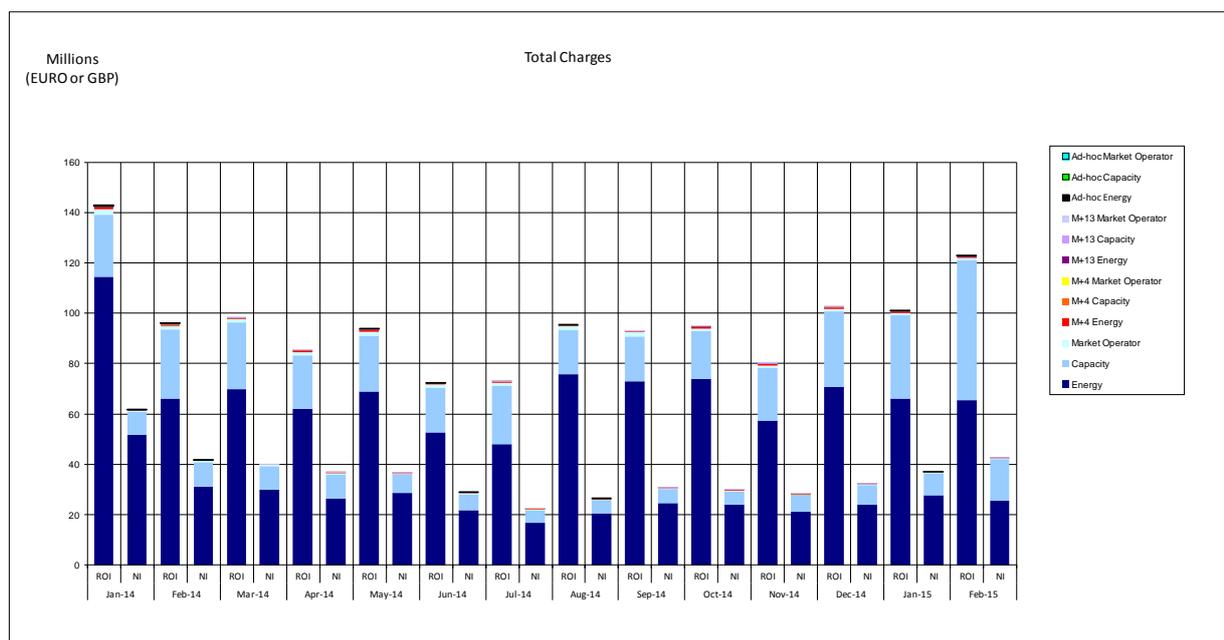


Figure 1 - Total Charges for Each Currency

Market	February 2015	
	ROI	NI
Energy	€65,650,453	£25,773,048
Capacity	€55,349,682	£16,395,217
Market Operator	€856,457	£213,119
M+4 Energy	€281,934	£112,874
M+4 Capacity	€56,930	£37,026
M+4 Market Operator	€1,559	£784
M+13 Energy	€451,007	£25,242
M+13 Capacity	€29,818	£5,150
M+13 Market Operator	€840	£140
Ad-hoc Energy	€68,858	£0
Ad-hoc Capacity	€0	£0
Ad-hoc Market Operator	€0	£0
Total	€122,747,537	£42,562,600

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

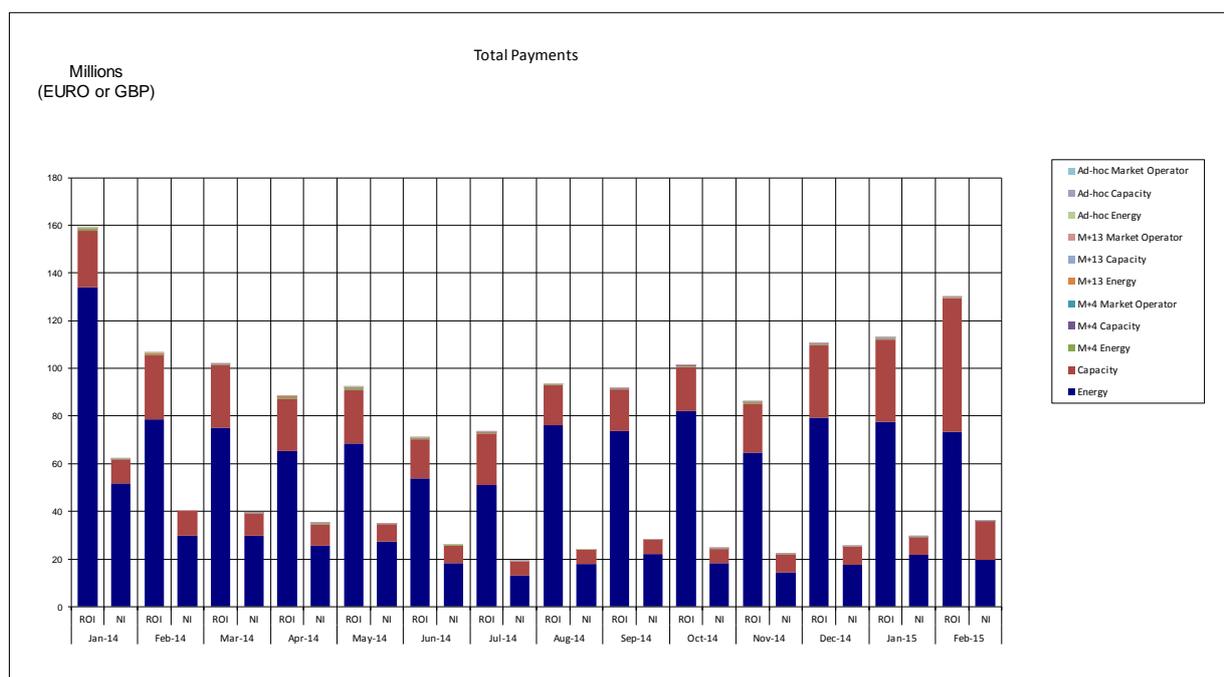


Figure 2 - Total Payments for Each Currency

Market	February 2015	
	ROI	NI
Energy	€73,470,093	£19,828,438
Capacity	€55,924,537	£15,954,829
M+4 Energy	€296,451	£108,023
M+4 Capacity	€68,642	£28,546
M+4 Market Operator	€1,587	£367
M+13 Energy	€108,844	£16,958
M+13 Capacity	€30,841	£4,432
M+13 Market Operator	€843	£141
Ad-hoc Energy	€0	£0
Ad-hoc Capacity	€0	£0
Ad-hoc Market Operator	€0	£0
Total	€129,901,837	£35,941,733

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.

Market Operator Monthly Report

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:

February 2015	
Imbalance (Energy Only)	-€215,754.61

Table 4 - Balancing Costs for Energy Settlement

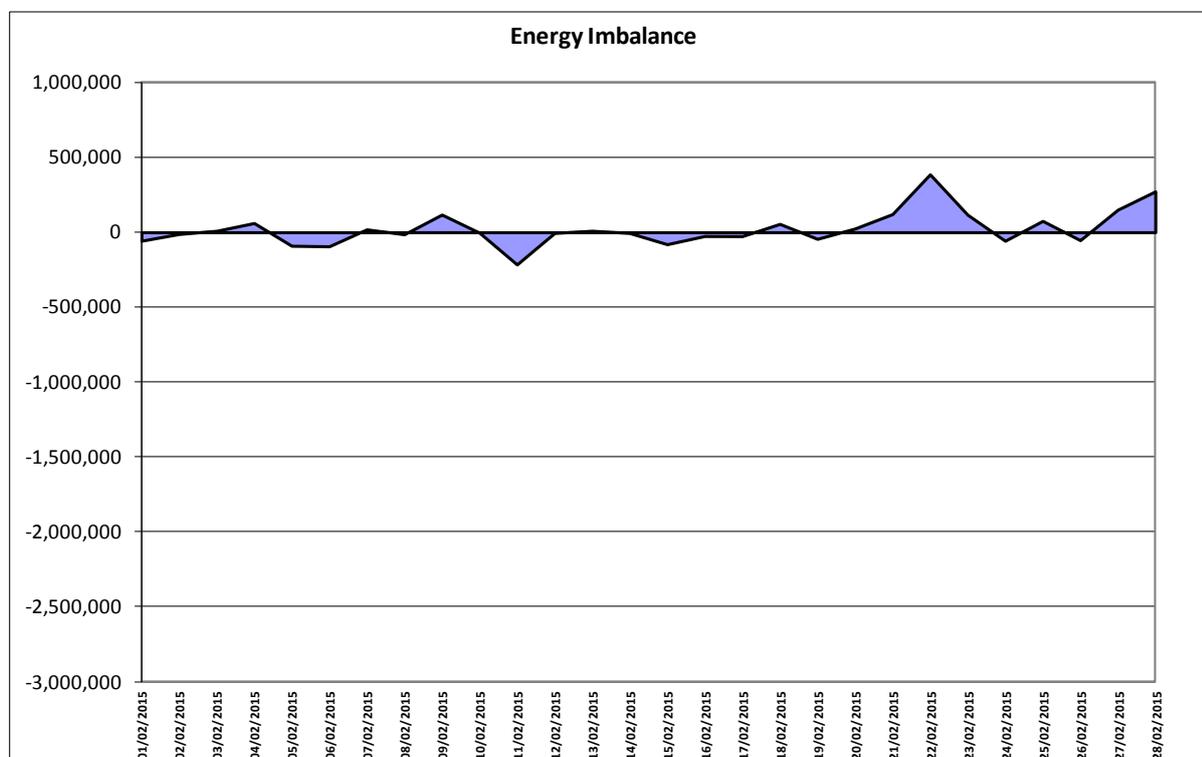


Figure 3 – Energy Imbalances

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](#).

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.

Market Operator Monthly Report

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
06/02/2015	4	€371,162.79	-€86,251.15
13/02/2015	5	-€198,874.86	€21,560.90
20/02/2015	6	-€341,073.88	€60,600.73
27/02/2015	7	€9,930.09	-€86,398.49

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:

February 2015	
Capacity Charges	-€56,227,796.84
Capacity Payments	€56,227,432.66
Balancing Costs	-€364.18
VAT	€0.02

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.

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)

Market Operator Monthly Report

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
06/02/2015	31/01/2015	4	£4,160.55	-£4,890.94	-£730.40
13/02/2015	07/02/2015	5	£6,617.38	£26,028.49	£32,645.87
20/02/2015	14/02/2015	6	£3,757.74	£11,488.02	£15,245.76
27/02/2015	21/02/2015	7	£2,155.07	£13,315.77	£15,470.84

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 £32,645.87 and a cost of £730.40. 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
10/03/2015	February 2015	£30,646.09

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

Market Operator Monthly Report

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 2014. 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
€85,137,988.18	-€1,814,972.48	€2,854,355.47	-€80,491,983.51

Table 9 – Cumulative Imperfections Costs Vs Budget

Note: The Total Constraint Payment figure above has been updated to contain Interconnector Unit Gate variables.

This is demonstrated in the figure below.

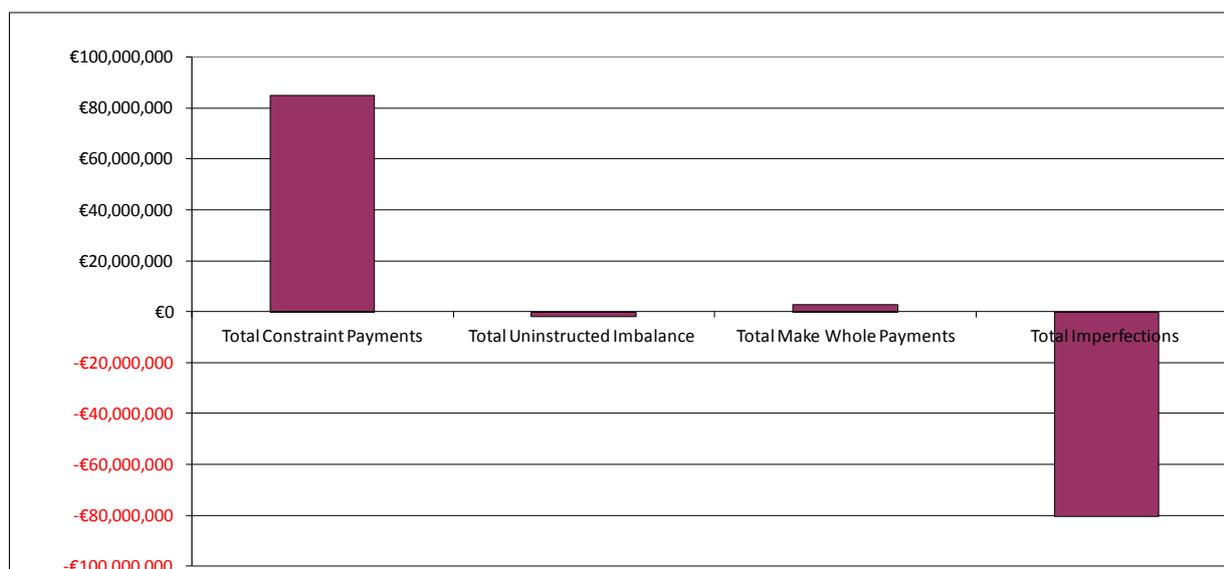


Figure 4 - Cumulative Imperfections Costs Vs Budget

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 October 2014 and M+13 resettlement period of January 2014 for Energy and Capacity.

3.1.1 Energy Market

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

- Positive amounts indicate net additional payments by Participants (Charges).

Market Operator Monthly Report

- Negative amounts indicate net additional payment to be made to Participants (Payments).

The reverse is true for Figure 7 & 10

M+4 Resettlement

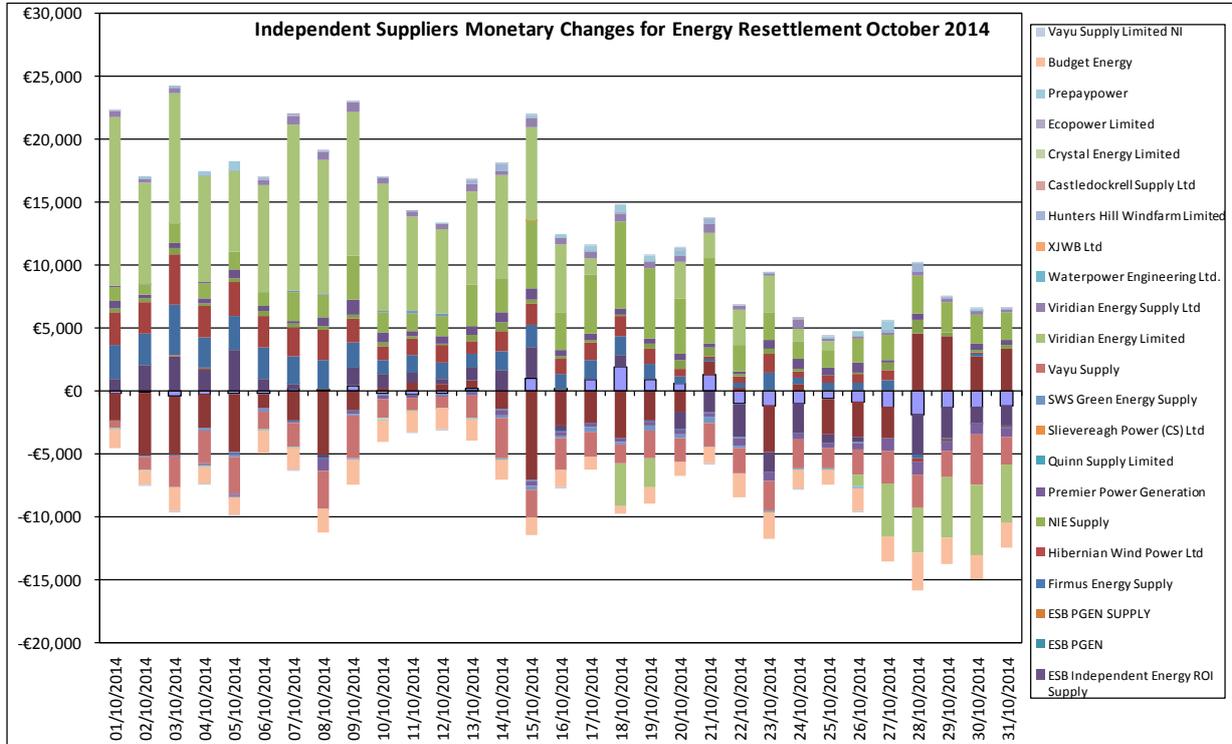


Figure 5 – Independent Suppliers Monetary Changes for Energy Resettlement – October 2014

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

Market Operator Monthly Report

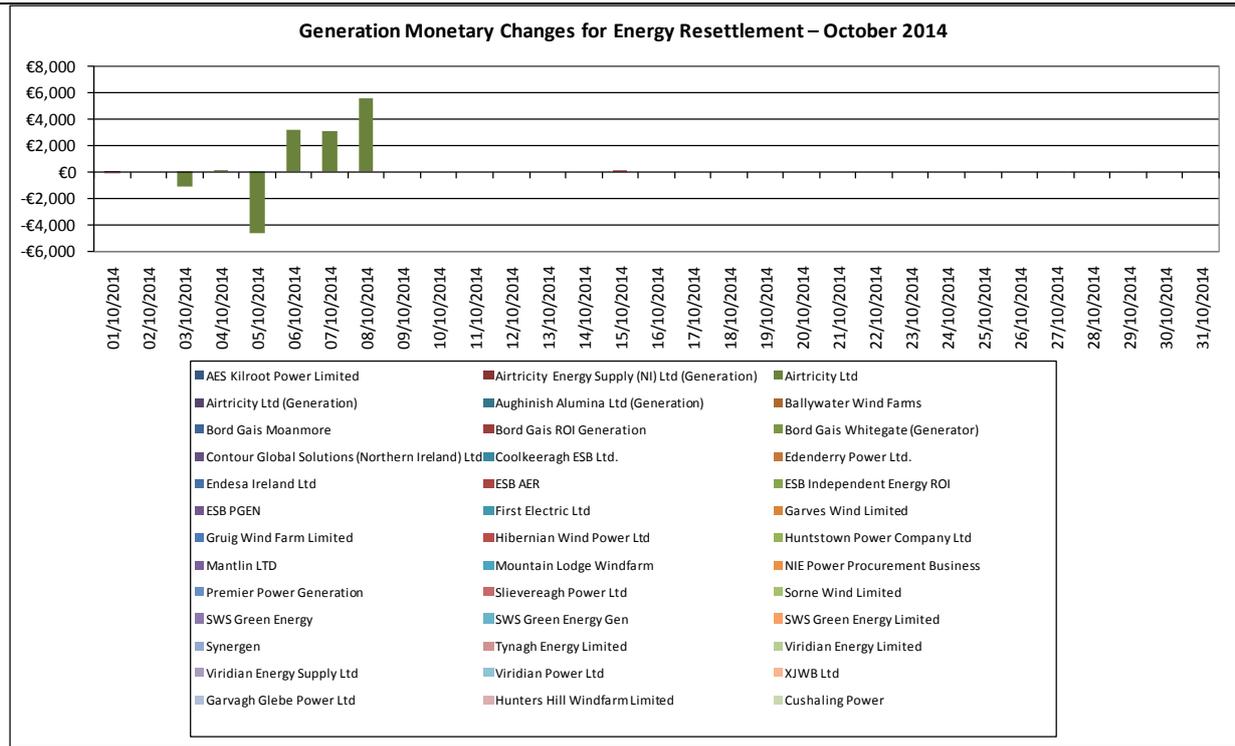


Figure 6 – Generation Monetary Changes for Energy Resettlement – October 2014

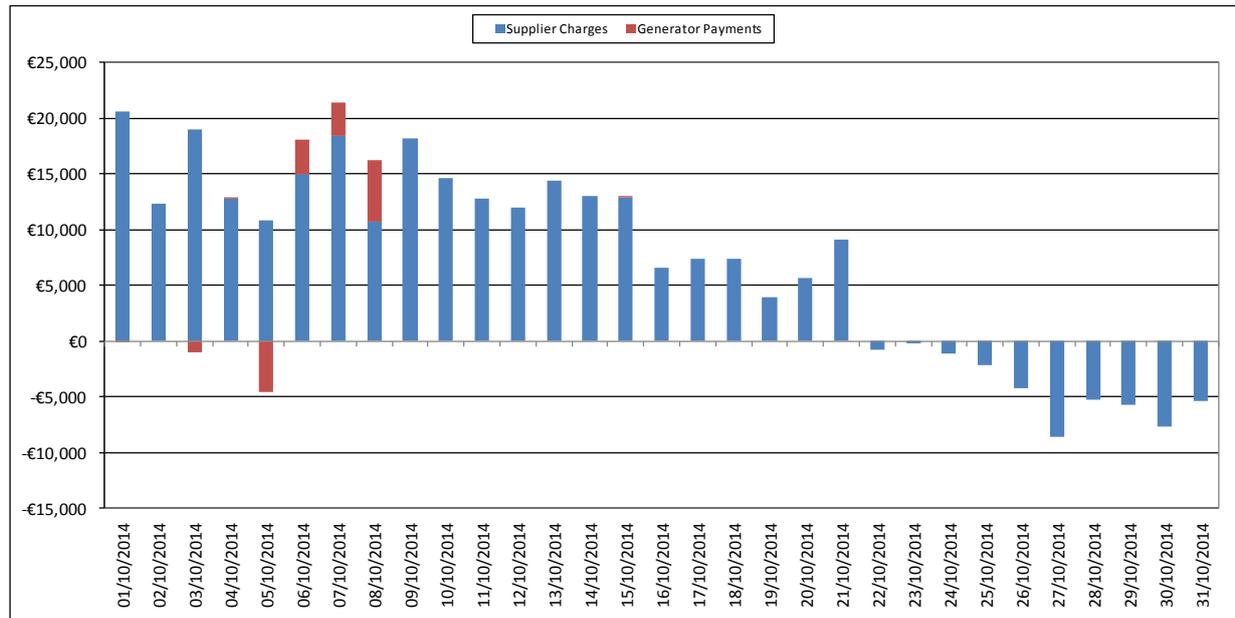


Figure 7 – Total Monetary Changes for Energy Resettlement – October 2014

M+13 Resettlement

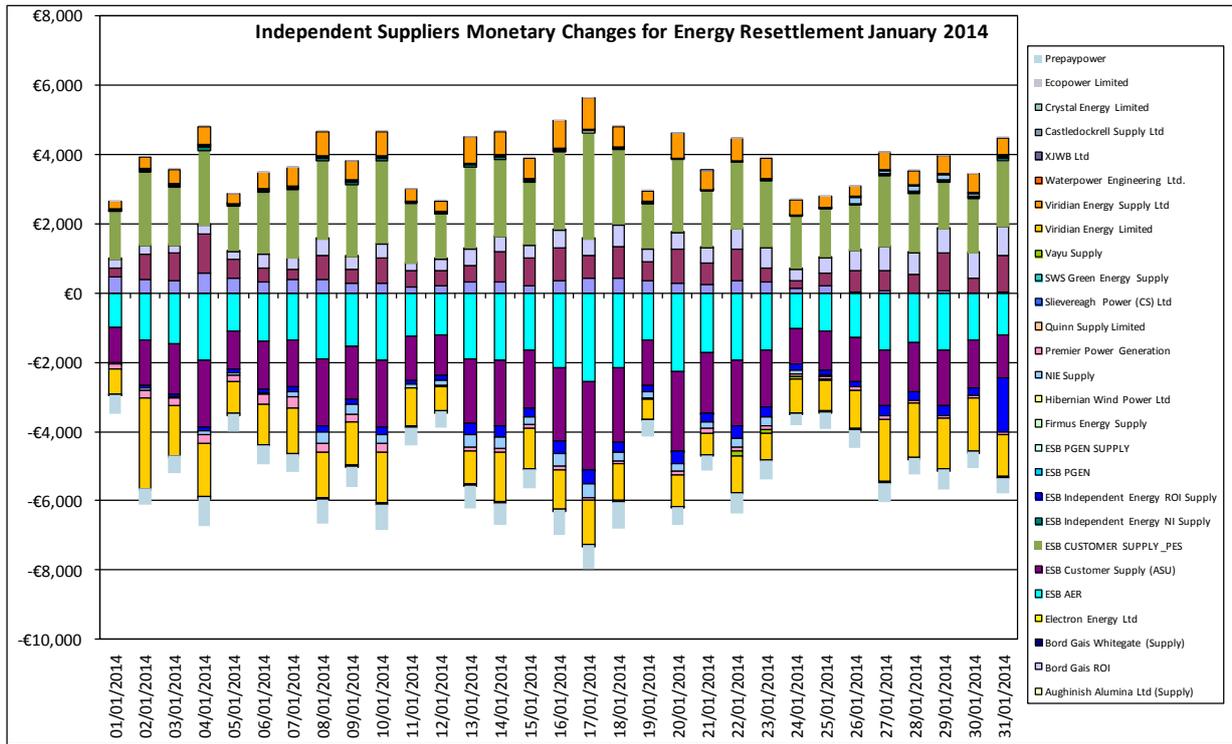


Figure 8 - Independent Suppliers Monetary Changes for Energy Resettlement - January 2014

The above variances relates purely to rounding for Participants between M+4 and M+13 Resettlement.

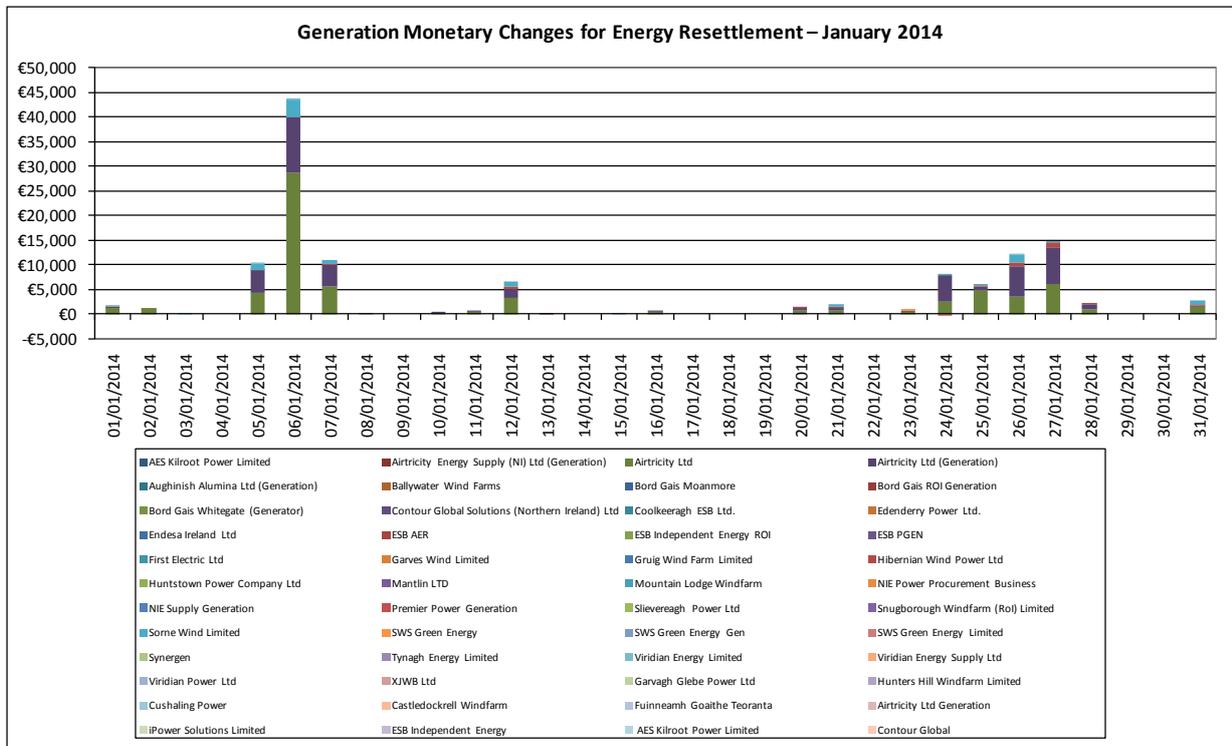


Figure 9 - Generation Monetary Changes for Energy Resettlement - January 2014

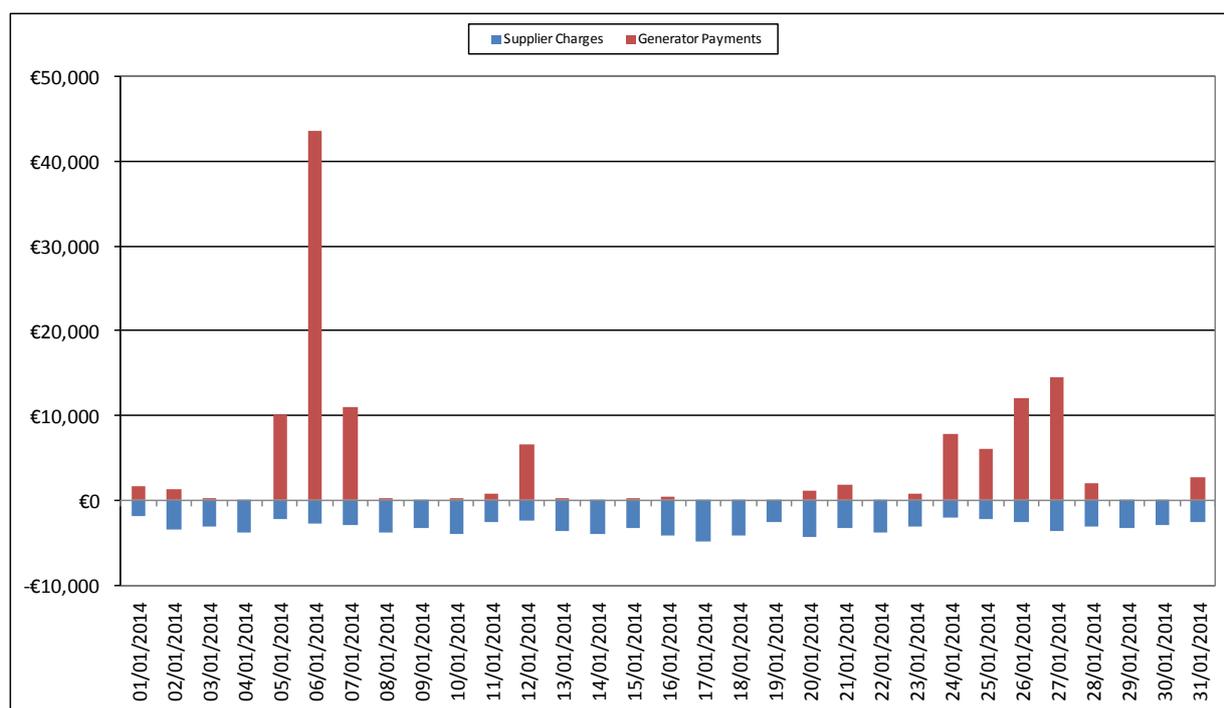


Figure 10 - Total Monetary Changes for Energy Resettlement – January 2014

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.

Market Operator Monthly Report

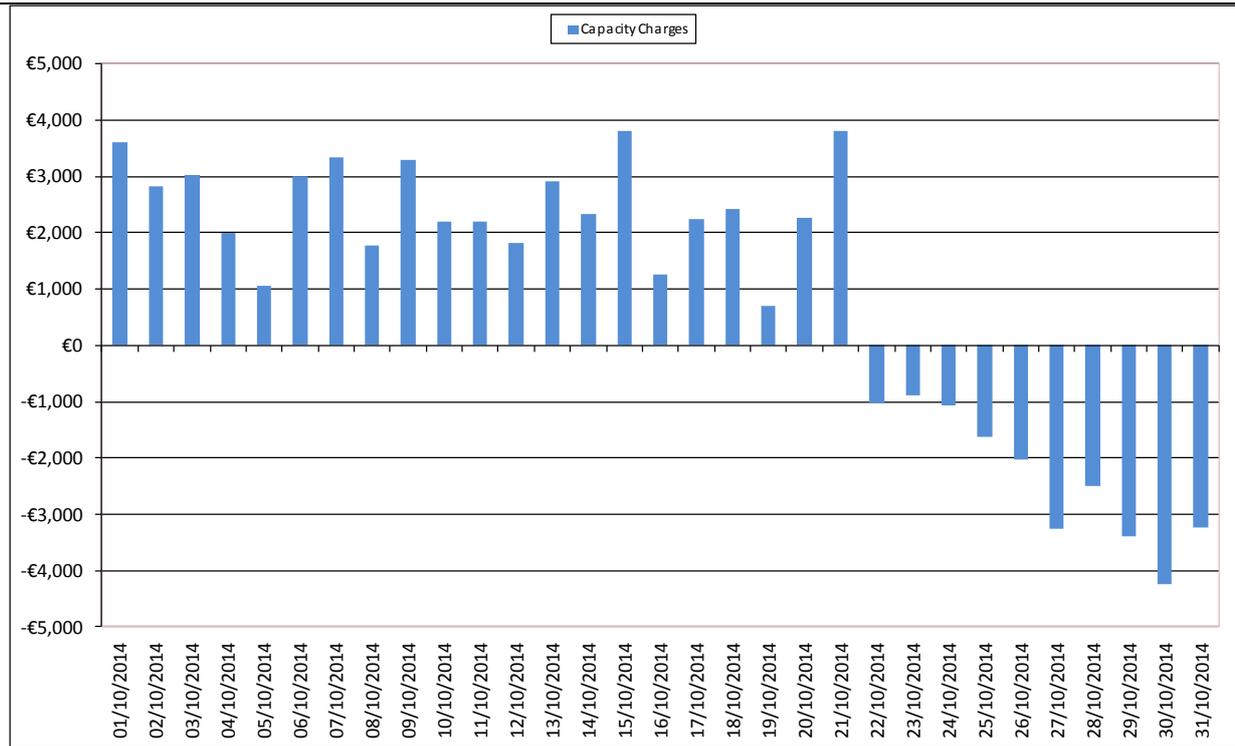


Figure 11 - Independent Suppliers Monetary Changes for Capacity Resettlement – October 2014

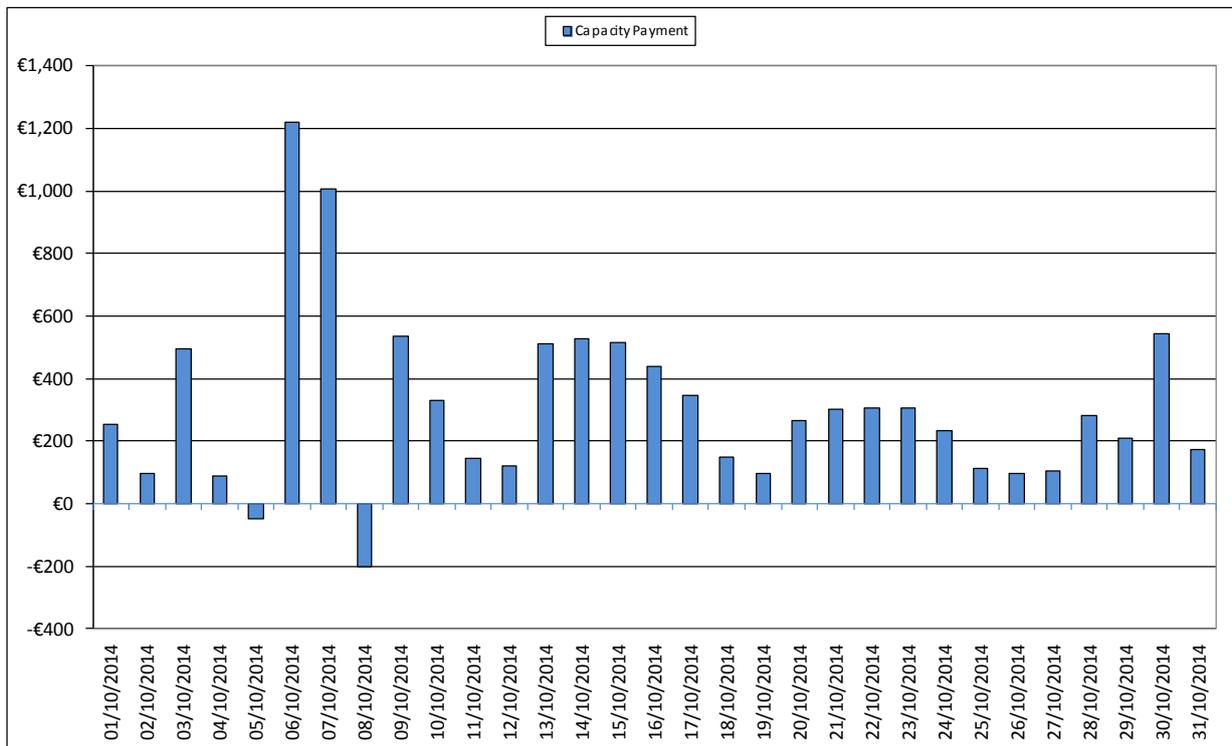


Figure 12 - All Generation Monetary Change for Capacity Resettlement – October 2014

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

Market Operator Monthly Report

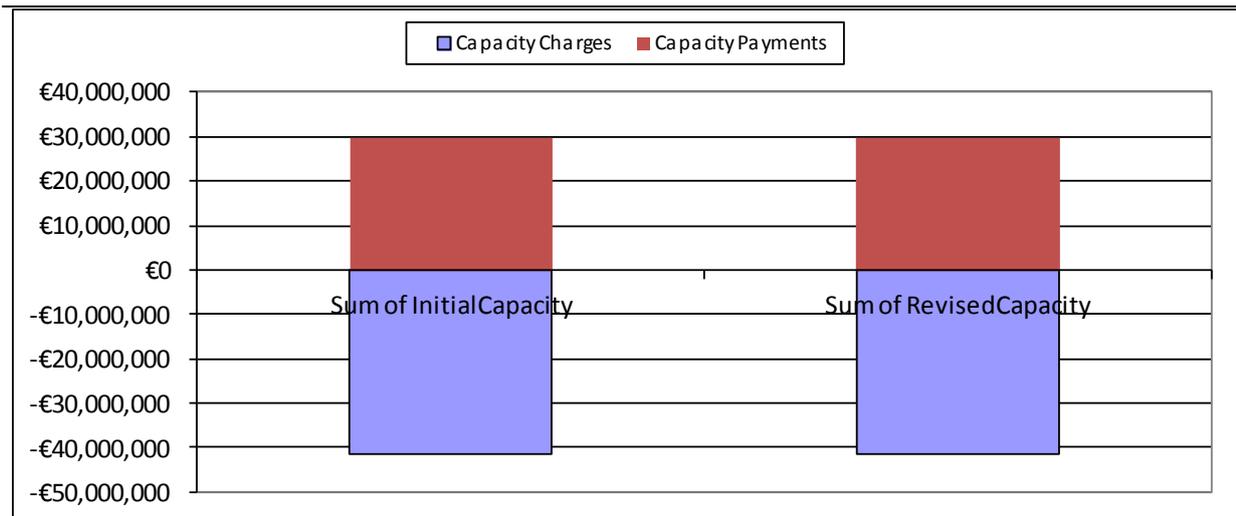


Figure 13 - Comparison of Distribution of Monetary Amounts between Capacity Initial and Resettlement October 2014

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

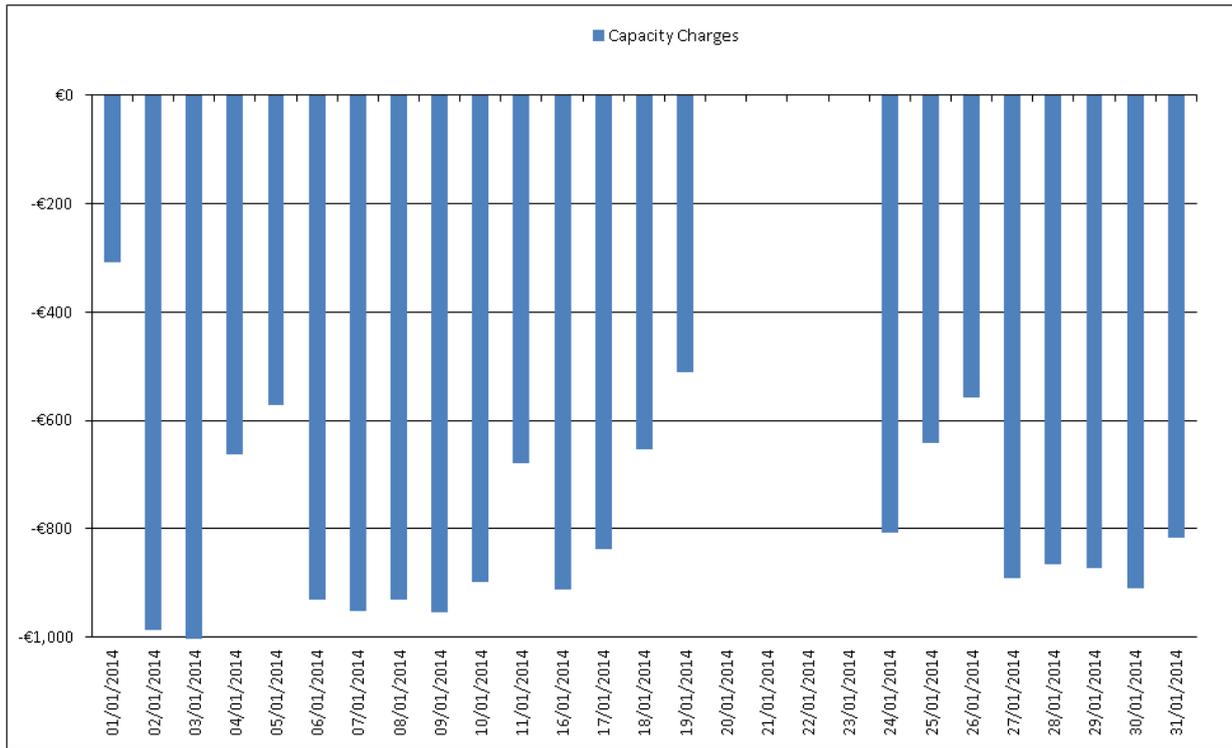


Figure 14 - Independent Suppliers Monetary Changes for Capacity Resettlement – January 2014

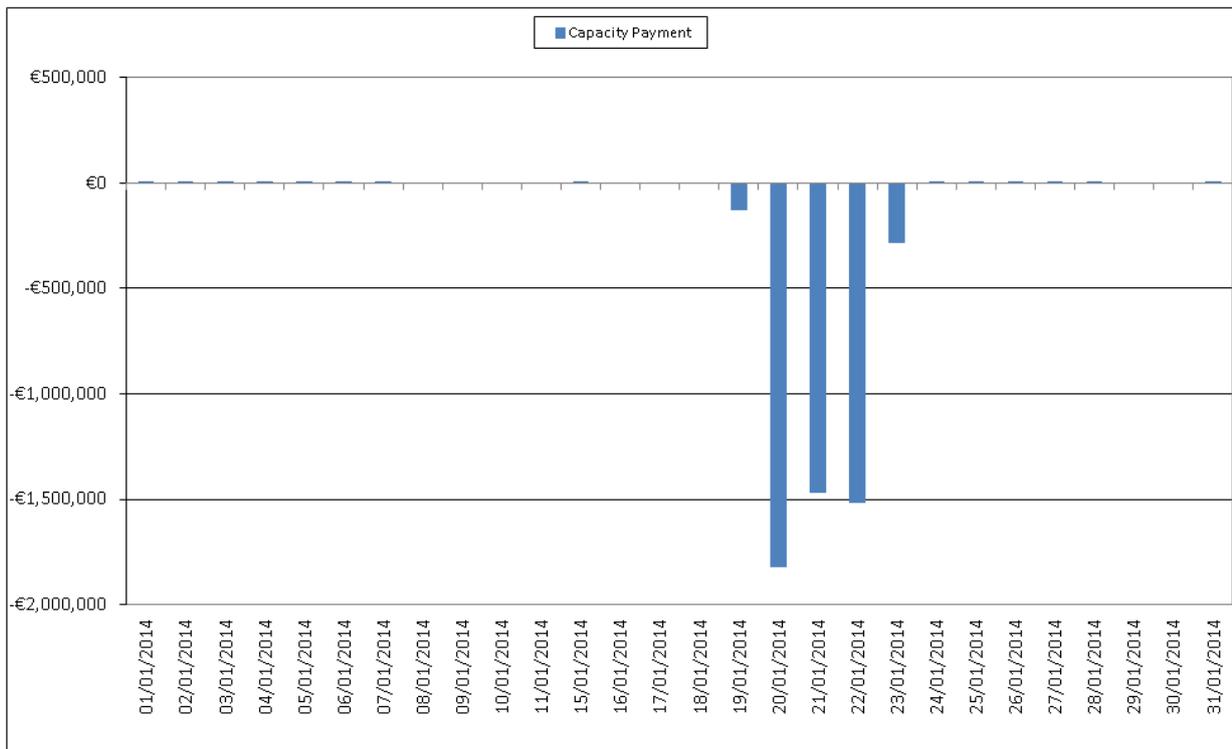


Figure 15 – All Generation Monetary Change for Capacity Resettlement – January 2014

Market Operator Monthly Report

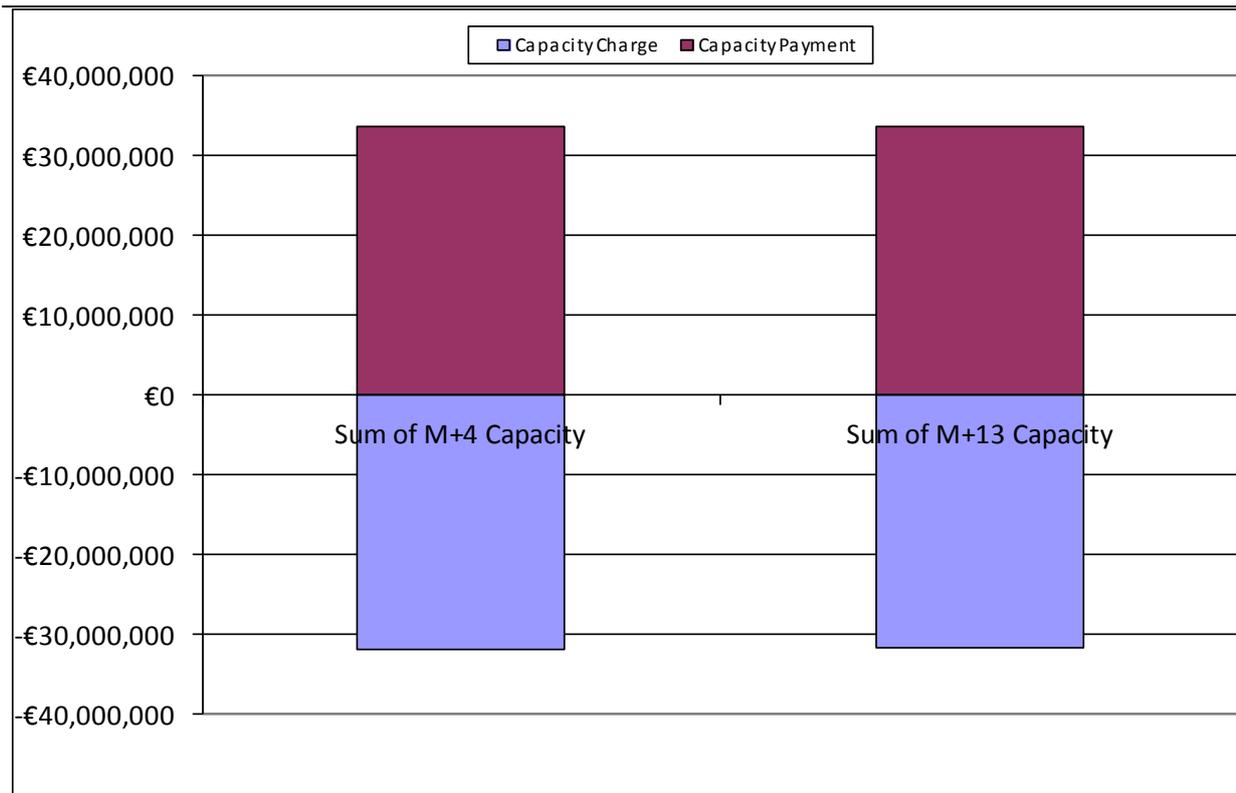


Figure 16 - Comparison of Distribution of Monetary Amounts between M+4 Capacity Resettlement and M+13 Capacity Resettlement – January 2014

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.

4 Helpdesk Call Statistics

The statistics presented in Table 10 - Helpdesk Call Statistics covers the month of February 2015.

Market Helpdesk Report: 01/02/15 to 28/02/15

	Received	Resolved within the period	Not Resolved	Resolved in the period	Resolution Time (Working Days)	Resolved On Time
Normal	141	129	12	150	2.20	136
Important	0	0	0	1	3.55	0
Urgent	1	1	0	1	0.75	1
Settlement	5	2	3	3	5.96	3
Credit	0	0	0	0	0.00	0
Dispute	0	0	0	0	0.00	0
Data	2	2	0	2	9.61	2
Total/Average	149	134	15	157	4.41	142

Table 10 – Helpdesk Statistics

Definitions:

- *Resolved within the Period* refers to queries raised and resolved within the calendar month of February 2015.
- *Resolved in the Period* refers to queries resolved within February 2015, 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 February 2015.
- *Not Resolved* refers to queries raised but not resolved within February 2015.
- *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 increased by 0.42 working days in February 2015 to 2.19 from 1.77 working days in January 2015. 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 February 2015 that took over 20 working days to resolve.

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 February 2015 with regard to formal Settlement Queries.

5. Disputes and Queries

5.1.1 Disputes

There were no Disputes raised during the month of February 2015 and there are no outstanding Disputes.

5.1.2 Data Queries

There were two formal Data Queries raised during the month of February 2015.

Topic	Number Of Queries
Actual Availabilites	1
Dispatch Instructions	1

Table 12 – Upheld Data Queries by topic

- One query relating to Actual Availabilites was raised, this was deemed to be of low materiality and will be corrected in Initial Capacity.
- One query relating to Dispatch Instructions was raised, this was deemed to be of low materiality and will be corrected in M+4.

5.1.3 Settlement Queries

There were five Settlement Queries raised in February 2015. Of the five, one was not upheld and four were resolved.

Topic	Number Of Queries
Payment Calculation	1
Availabilities	2
Meter	1

Table 13 –Upheld Settlement Queries by topic

- One query relating to a Payment Calculation was raised, this was deemed to be of low Materiality and will be corrected in Adhoc re-settlement.
- One query relating to an Eligible Availability Payment Calculation was upheld, however it is not Material and will not be re-settled.
- One query relating to Actual Availabilities was raised, this was due to the second VPTG defect.
- One query relating to an Eligible Availability Payment Calculation was upheld, however it is not Material and will not be re-settled.
- One query relating to Metered Generation was raised, this was deemed to be of low Materiality and will be corrected in M+4.

Unresolved Queries

There are no unresolved Data Queries as at the 13th of March, 2015.

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, 74.26% of data used was submitted by Participants through the normal Bid-Offer process. 25.58% of the data used was based on Standing Commercial Offer Data. 0.16% 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 no Re-Price runs carried out in February 2015.

There were two Resettlement runs carried out in February 2015.

6.1.2 System Errors

There were three defects found in February. One in the Market Interface (MI) and two in the Market Application (MA).

1. Defect 137973
2. Defect 138021
3. Defect 137670

These have all been raised as defects and we will aim to have them fixed for the SEM 2.6.0 Release.

Details are provided in 10 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 February 2015.

6.2.1 MSP Postings February 2015

Process	On Time	< 1 hr late	> 1 hr late	Not done
Gate Close EA	31-31	0-31	0-31	0
Post EA1	31-31	0-31	0-31	0
Post EA2	31-31	0-31	0-31	0
Post WD1	31-31	0-31	0-31	0
Post EP1	31-31	0-31	0-31	0
Post EP2	31-31	0-31	0-31	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	100%	0%	0%	0%
Post EP1	100%	0%	0%	0%
Post EP2	100%	0%	0%	0%

Table 15 - Operational Timings (% on time)

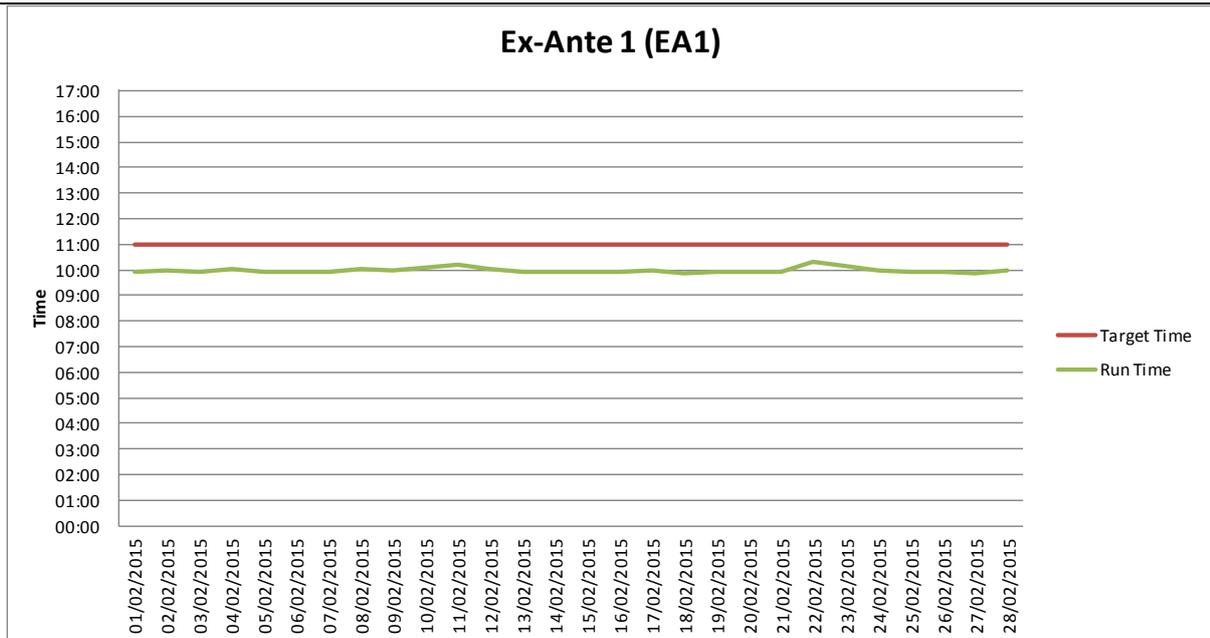


Figure 17 – Ex-Ante 1

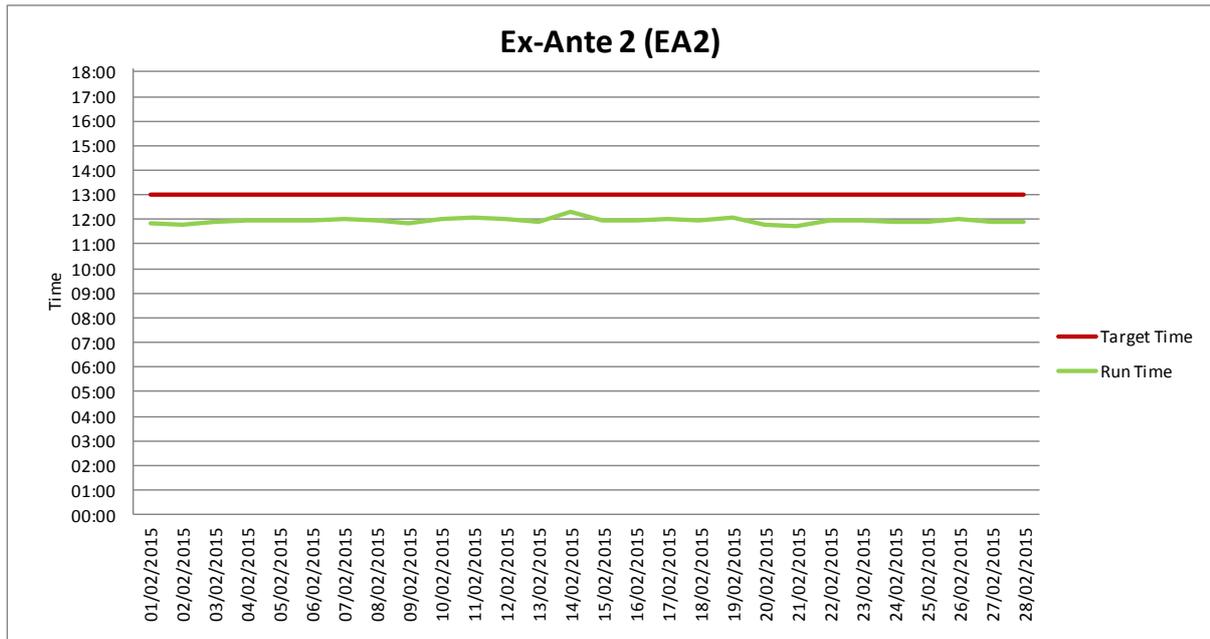


Figure 18 – Ex-Ante 2

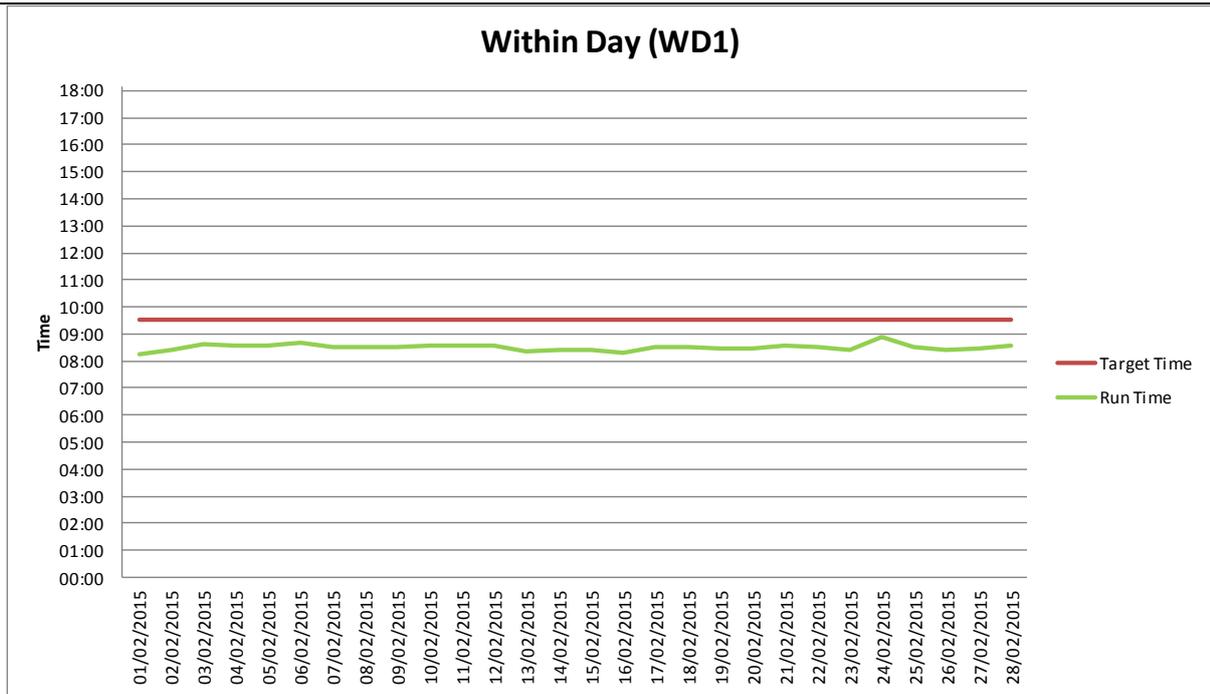


Figure 19 – Within Day 1

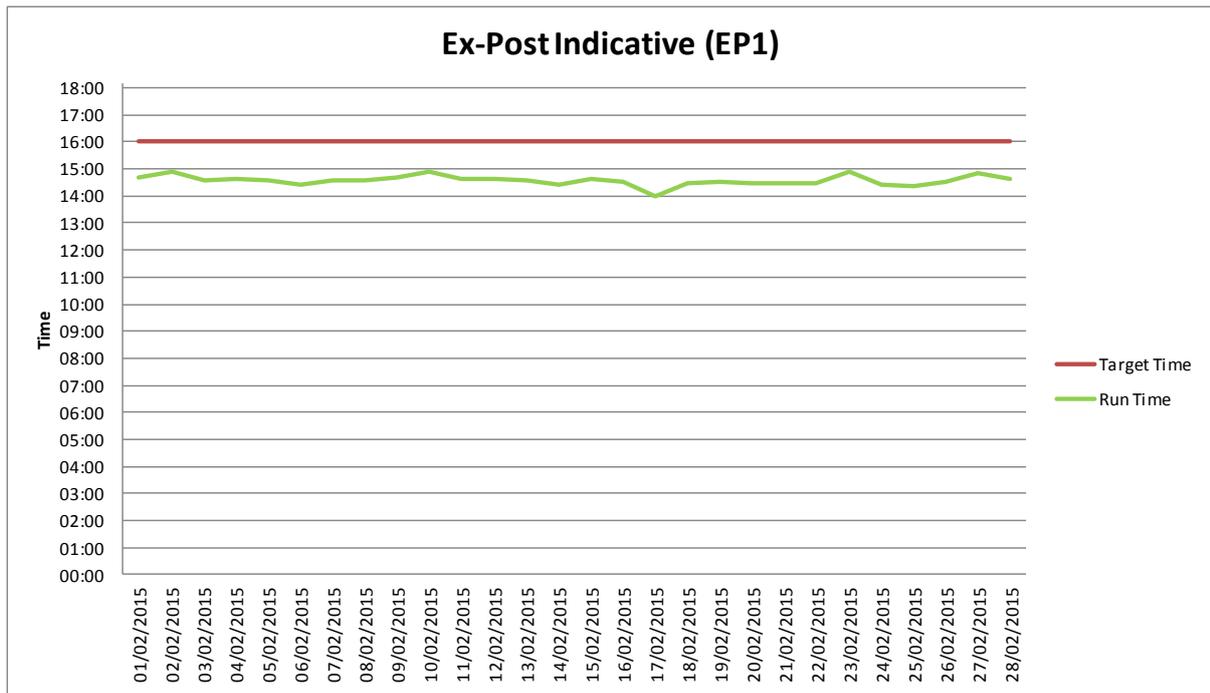


Figure 20 - Ex-Post Indicative

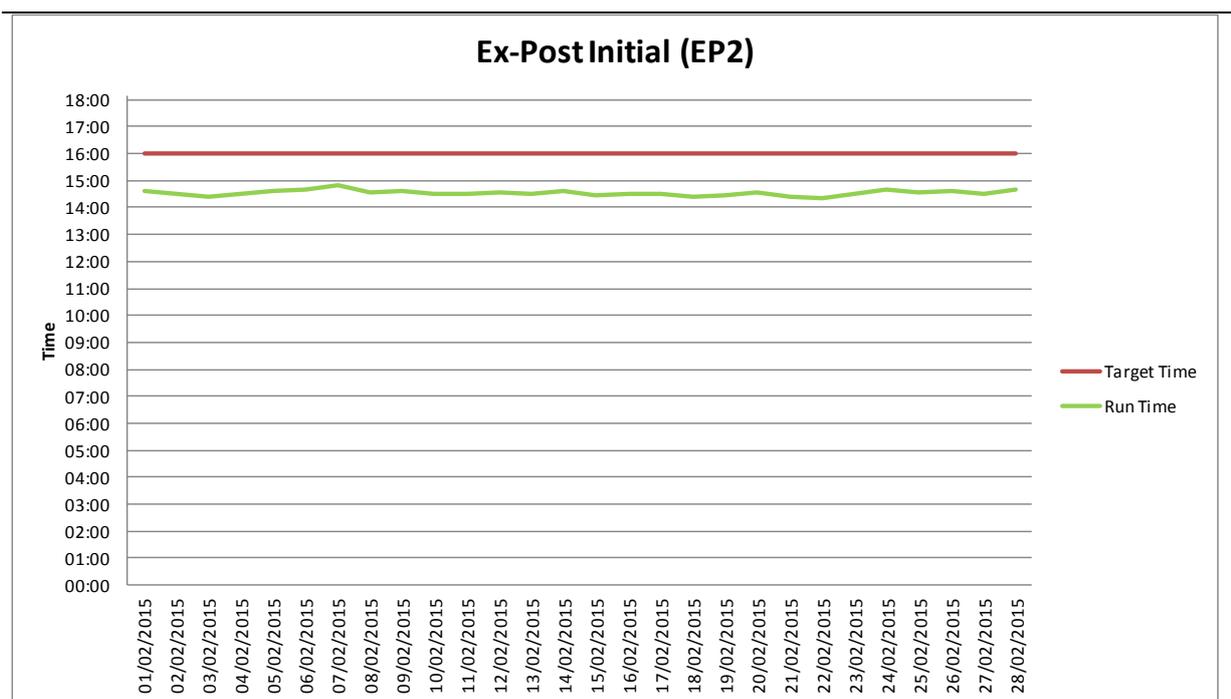


Figure 21 - Ex-Post Initial

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 February 2015, there were ten instances of publishing with the MIP solver.

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

Market Operator Monthly Report

6.2.3 Settlement Postings February 2015

The publication timings for Settlement runs are provided below.

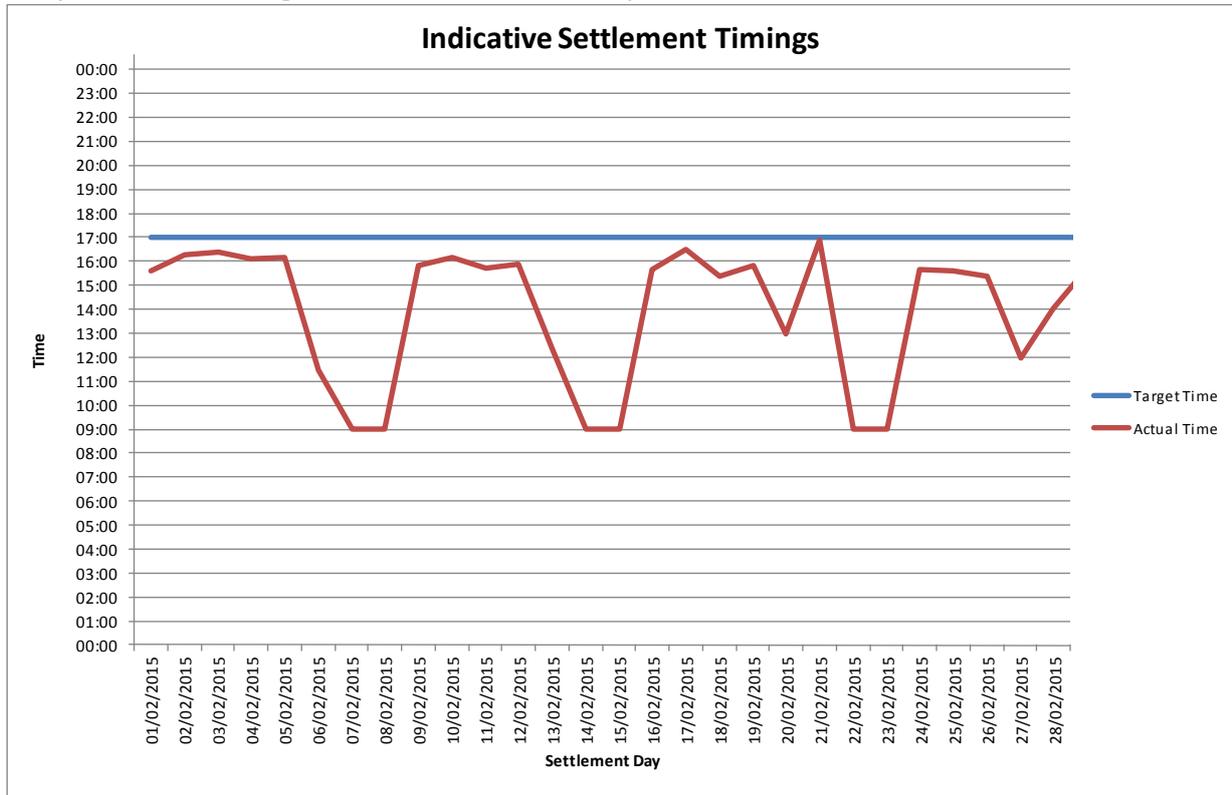


Figure 22 - Indicative Settlement Postings

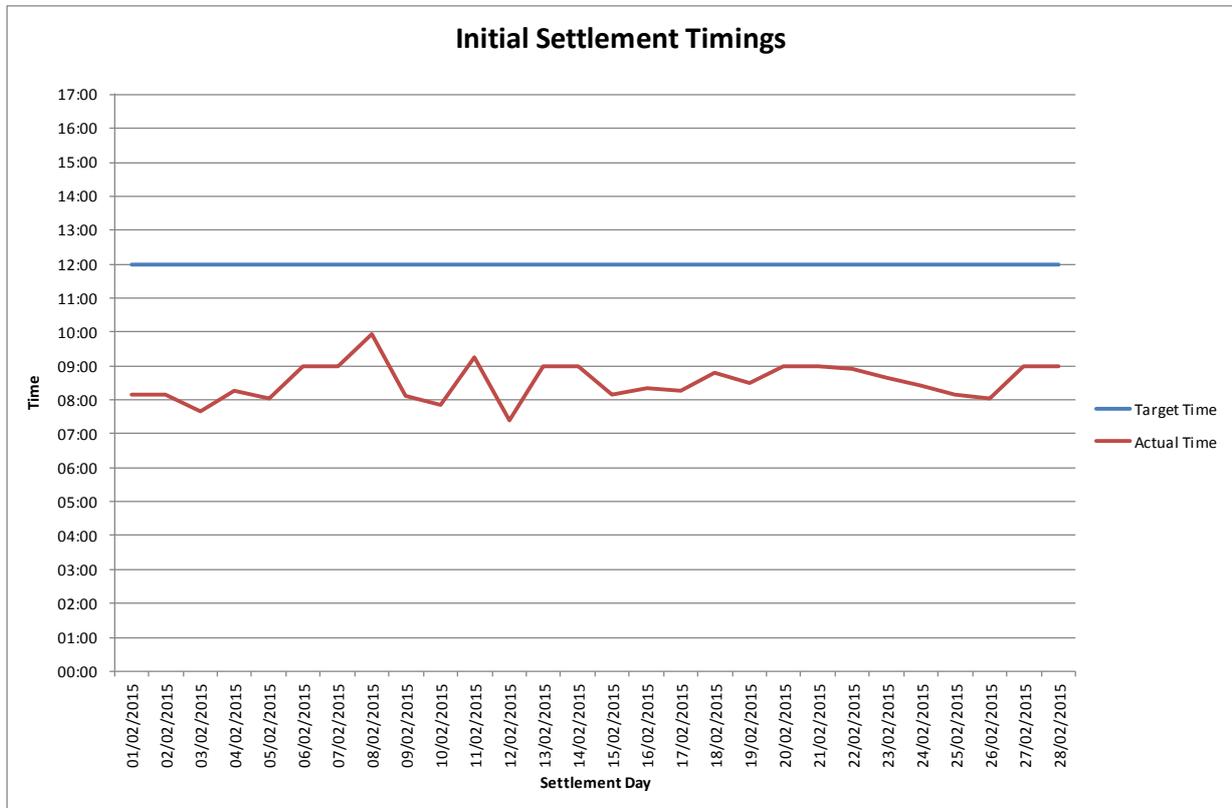


Figure 23 - Initial Settlement Postings

Further details of any delays noted above are provided in [Appendix A](#)

6.5 Market System Releases

6.5.1 Release SEM R2.6.0 (Proposed Deployment: April 2015)

The release cut-off date for the SEM R2.6.0 release was Friday 5th of September 2014.

As at the Cut-Off Date there were no:

- Approved Modification Proposals or
- New Change Requests submitted to the SDS

As there are no functional changes being proposed, a Change Control Forum (CCF) meeting will not be required. Three technical changes have been proposed by SEMO IT and these are currently being assessed by our vendors. Once assessments are complete SEMO will issue a scope proposal to the Regulatory Authorities and if approved, this will be published to the industry.

We are due our first drop of the software on 31st of March. Once deployed to non-production System Integration Testing (SIT) will commence. As there are no functional changes a full suite of regression tests will be performed to verify the applications are fit for purpose.

7 Occasional Components

7.1 Disaster Recovery/Business Continuity Tests

There was no Business Continuity Tests performed during February 2015.

7.3 Communications or Systems Failures

There was 2 Market Interface System issues during February 2015;

On the 2nd of February 2015, Market Operations reported that a participant had logged an issue stating that their Type 3 submissions to the SEM webservice had failed, but upon retrying, the submissions worked successfully. An issue was found by Market Systems IS, and was corrected live (without any outage required). All submissions were monitored after this by Market System IS and there was no re-occurrence of the observed issue.

On the 3rd of February 2015, the TSO reported that they had an issue submitting meter data to the AMP web service. A call was placed with the 3rd party vendor, and upon investigation, it was discovered that the login account used by the TSO (SONIWS) was locked out due to unsuccessful login attempts. The 3rd party vendor unlocked the account, the TSO tested again, and submission worked successfully.

7.4 Denial of Service Attacks

There was no Denial of Service Attacks during February 2015.

7.5 Submission of Parameters to RAs for Approval

No parameters were submitted to the Regulatory Authorities during February 2015.

8 Appendix A: Detail of Code Breaches

Market Participant

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
02/02/2015	CRM	Timing	Participant	Credit	LCC Power Limited (CP_400137) defaulted on a CCIN issued on 29/01/2015	CCIN was not resolved within the T&SC timeframes	LCC Power Limited (CP_400137) increased cash collateral on the 03/02/2015 which closed the CCIN	Major
04/02/2015	Money In	Timing	Participant	Payment Default	Indaver Energy Limited (PT_400088) defaulted on a December 2013 Capacity Invoice	Participant Error	A default letter was issued.	Major
04/02/2015	Money In	Timing	Participant	Payment Default	PT_400069 G.A.E.L Force Power Limited defaulted on a Week 39 2014 M+4 Energy Invoice	Participant Error	A default letter was issued.	Major
04/02/2015	Money In	Timing	Participant	Payment Default	PT_400069 G.A.E.L Force Power Limited defaulted on a September 2014 M+4 Capacity Invoice	Participant Error	A default letter was issued	Major
10/02/2015	CRM	Timing	Participant	Credit	Bruckana Wind Farm Ltd (CP_400131) defaulted on a CCIN issued on 06/02/2015	CCIN was not resolved within the T&SC timeframes	Bruckana Wind Farm Ltd (CP_400131) paid an outstanding invoice on the 11/02/2015 which closed the CCIN	Major
13/02/2015	Money In	Timing	Participant	Payment Default	PT_400137 LCC Power Limited defaulted on a January 2015 FMOC invoice	Participant Error	A default letter was issued	Major
13/02/2015	Money In	Timing	Participant	Payment Default	PT_400149 Arden Energy Limited defaulted on a January 2015 FMOC invoice	Participant Error	A default letter was issued	Major
13/02/2015	Money In	Timing	Participant	Payment Default	PT_400133 Endeco Technologies Limited defaulted on a January 2015 FMOC invoice	Participant Error	A default letter was issued	Major
13/02/2015	Money In	Timing	Participant	Payment Default	PT_400134 Endeco Technologies Limited defaulted on a January 2015 FMOC invoice	Participant Error	A default letter was issued	Major
13/02/2015	Money In	Timing	Participant	Payment Default	PT_400049 Quinn Windfarm Limited defaulted on a January 2015 FMOC invoice	Participant Error	A default notice was issued	Major
25/02/2015	Money In	Timing	Participant	Payment Default	Kilowen Biogas (PT_400140) defaulted on a Week 42 2014 M+4 Energy Invoice	Participant Error	A default letter was issued.	Major

Table 16 - Code Breaches – Market Participants

Data Provider

There were no issues to report in February 2015

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
There are no items to show in this view of the "Issues Log" list. To create a new item, click "New" above.								

Table 17 - Code Breaches – Data Providers

Market Operator Monthly Report

SEMO - Pricing and Scheduling

There were no issues to report in February 2015

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
09/02/2015	EP1	Quality	SEMO	Operational	The Eirgrid data feed SO_EP_LOSS_OF_LOAD_PROBABILITY for Trade Date 09/02/2015 failed to submit correctly.	The relevant gate EXT_EP_LOLP had been closed in error by SEMO on the previous Operational Date 08/02/2015.	Eirgrid IT submitted the data feed manually. SEMO reopened the relevant gate and uploaded the file manually. The data feed was successfully received into the Market Systems.	Minor
16/02/2015	EA1	Quality	SEMO	Operational	The Eirgrid data feed SO_EP_LOSS_OF_LOAD_PROBABILITY for Trade Date 16/02/2015 failed to submit correctly at 16:00pm on the 15/02/2015.	The relevant gate EXT_EP_LOLP had been closed in error by SEMO on the previous Operational Date 15/02/2015.	SEMO re-opened the EXT_EP_LOLP gate for the 16/02/2015 and Eirgrid IT resubmitted the file. The data feed was successfully received into the Market Systems at 10:02am.	Minor
25/02/2015	EA2	Quality	SEMO	System	The publication of EWIC MIUNs for the Ex-Ante 2 (EA2) run for Trade Date 26/02/2015 was delayed.	The MIUN calculator produced an error and a revised file was required.	Revised EWIC MIUNs were published at 13:24.	Minor

Table 18 - Code Breaches – Pricing and Scheduling

SEMO – Settlements

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
19/02/2015	M+13 ENG & VMOC Statements	Quality	SEMO	Operational	M+13 Statements and Participant Information Reports (PIRs) for Billing Period Week 3 2014 were published after the 17:00 deadline.	The delay was due to wrong save case being used and was identified by a second controller. This led to all the checks being re-done and Statements and PIRs published the following morning.	An IP- rerun was carried out by IT to ensure that the correct figures were used in M13 resettlement. Statements were then sent out to participants the next morning 20/02/2015	Minor
19/02/2015	Adhoc ENG Invoice	Timing	SEMO	Operational	Ad hoc Statements and Participant Information Reports (PIRs) for Billing Period Week 33 2012 were published after the 17:00 deadline.	Statements were delayed due to materiality not matching analyst calculations on the VPTG defect.	Schedules including the VPTG defect data were cancelled and M13 run with original schedules.	Minor
23/02/2015	Indicative Statements and PIRs	Timing	SEMO	Operational	Indicative Statements and PIRs for 22/02/2015 were published after the 17:00 deadline.	Due to an operational error 3 batches had to be run on Monday. Saturdays Indicative run was kicked off before Friday's which led to re-running of batches.	All batches were complete and 22/02/2015 were published 10 minutes outside the 17:00pm deadline	Minor
26/02/2015	Adhoc CAP Invoice	Quality	SEMO	Operational	Ad hoc Statements and Participant Information Reports (PIRs) for Billing Period Week 34 2012 published after the 17:00 deadline.	Statements, PIRs and Invoices were delayed due to an incorrect save case that was used for the VPTG defect	All statements, PIRs and invoices for week 34 2012 were published Monday 02/03/2015	Minor
27/02/2015	Adhoc CAP Invoice	Timing	SEMO	Operational	Market message was issued to Participants as Statements, PIRs and Invoices were deferred for Week 34 2012 Ad hoc Energy Resettlement .	Invoices were delayed due to materiality not matching analyst calculations on the VPTG defect and incorrect files being used	All statements, PIRs and invoices for week 34 2012 were published Monday 02/03/2015	Major

Table 19 - Code Breaches – Settlements

SEMO - Funds Transfer

There were no issues to report in February 2015

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
There are no items to show in this view of the "Issues Log" list. To create a new item, click "New" above.								

Table 20 - Code Breaches – Funds Transfer

Market Operator Monthly Report

SEMO - Credit Management

There were no issues to report in February 2015

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
There are no items to show in this view of the "Issues Log" list. To create a new item, click "New" above.								

Table 21 - Code Breaches – Credit Risk Management

SEMO – Other

There were no issues to report in February 2015

Ops Date Identified	Run Type	Quality or Timing	Party	Issue Type	Description	Cause	Resolution	T and SC Breach
There are no items to show in this view of the "Issues Log" list. To create a new item, click "New" above.								

Table 22 - Code Breaches – Other

9 Appendix B: List of Queries by Type

Data Queries

Summary Title	Description	ID	Logged On	Date sent to MP
Availability	Incorrect ACTAs were sent to the SEM for the following units at the following times;GU_400211 (Erne Unit 2) at 12:28 on the 12/02/2015GU_400120 (Sealrock Unit 3) at 00:30, 00:52 & 23:09 on the 12/02/2015	GU_400211 GU_400120	2015-02-16	2014-12-23
Dispatch instructions	Incorrect DIs were sent to the SEM for the following units at the following times;GU_401720 (Booltiagh Windfarm Phase 1) at 21:24 on the 12/02/2015GU_400120 (Sealrock Unit 3) at 00:30 and 00:52 on the 12/02/2015	GU_401720 GU_400120	2015-02-16	2015-02-27

Table 23 - Data Queries

Settlement Queries

Summary Title	Description	ID	Logged On	Date sent to MP
Payment Calculation	Unit (GU_400200) AA1. Difference in Constraint Payments. Market Operator paid a start-up payment for this unit at 12:00, when no Sync instruction issued.	GU_400200	2015-02-23	2015-03-05
Availability	There are a number of days in November when no EA values have been provided for unit GU_400211 ie 20th to 22nd and from 24th to 26th. A CPP values has been calculated for the unit on these days. Could you confirm the EA values used in settlement. Will send an attachment file by separate email.	GU_400211	2015-02-27	2015-03-06
Availability	Incorrect Actual Availability and therefore Market Schedule Quantity for a number of curtailed VPTG's where Actual Output is greater than Time Weighted Average Outturn Availability which is resulting in settlement errors from 11th May 2014 to 15th Nov 2014.	Eirgrid	2015-02-10	2014-12-11
Payment Calculation	Query re the CPP calculated for the EWIC unit for a number of days in October. We have calculated a different value for the CPP on a number of days and in particular when the unit is importing. Specific dates where there is a difference are 2nd 16th 17th 18th 19th 21st 25th 26th and 31st. I will send a spreadsheet by separate email which gives a break-down by trading period. Could you please review and advise.	PT_400030 (EWIC unit)	2015-02-25	2015-03-05
Meter Data	The meters were uncontactable for GU_400650 (Ballybane Windfarm Phase 1), this resulted in Backstop being sent to the SEM for all day (00:00-23:59) on the 26/01/2015.	GU_400650 - Ballybane Wind Farm Phase 1	2015-02-10	2015-02-13

Table 24 - 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 month's 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
ABB2015-137670	IP - Heat state issue on new unit	-	-	-	-	-
ABB2015-138021	Single ramp rate (CR255)	-	-	-	-	-
ABB2015-137973	SM_INTCON_IART web-service not working	-	-	-	-	-

Table 25 - 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								
01/02/2015	11:00	09:54	13:00	11:49	09:30	08:16	16:00	14:42	17:00	14:37
02/02/2015	11:00	10:00	13:00	11:48	09:30	08:24	16:00	14:55	17:00	14:32
03/02/2015	11:00	09:56	13:00	11:54	09:30	08:36	16:00	14:35	17:00	14:24
04/02/2015	11:00	10:01	13:00	11:59	09:30	08:35	16:00	14:38	17:00	14:32
05/02/2015	11:00	09:56	13:00	11:57	09:30	08:34	16:00	14:34	17:00	14:38
06/02/2015	11:00	09:57	13:00	11:58	09:30	08:39	16:00	14:26	17:00	14:40
07/02/2015	11:00	09:57	13:00	12:00	09:30	08:31	16:00	14:34	17:00	14:51
08/02/2015	11:00	10:02	13:00	11:57	09:30	08:30	16:00	14:36	17:00	14:35
09/02/2015	11:00	10:00	13:00	11:52	09:30	08:32	16:00	14:40	17:00	14:36
10/02/2015	11:00	10:04	13:00	12:02	09:30	08:34	16:00	14:54	17:00	14:31
11/02/2015	11:00	10:12	13:00	12:06	09:30	08:33	16:00	14:37	17:00	14:29
12/02/2015	11:00	10:01	13:00	12:00	09:30	08:35	16:00	14:38	17:00	14:35
13/02/2015	11:00	09:57	13:00	11:54	09:30	08:21	16:00	14:34	17:00	14:30
14/02/2015	11:00	09:56	13:00	12:19	09:30	08:23	16:00	14:24	17:00	14:38
15/02/2015	11:00	09:57	13:00	11:56	09:30	08:26	16:00	14:37	17:00	14:27
16/02/2015	11:00	09:56	13:00	11:56	09:30	08:17	16:00	14:32	17:00	14:31
17/02/2015	11:00	09:59	13:00	12:00	09:30	08:30	16:00	14:00	17:00	14:30
18/02/2015	11:00	09:51	13:00	11:56	09:30	08:30	16:00	14:29	17:00	14:24
19/02/2015	11:00	09:54	13:00	12:03	09:30	08:28	16:00	14:33	17:00	14:27
20/02/2015	11:00	09:55	13:00	11:47	09:30	08:28	16:00	14:27	17:00	14:33
21/02/2015	11:00	09:55	13:00	11:45	09:30	08:33	16:00	14:27	17:00	14:24
22/02/2015	11:00	10:19	13:00	11:57	09:30	08:32	16:00	14:28	17:00	14:21
23/02/2015	11:00	10:09	13:00	11:59	09:30	08:25	16:00	14:53	17:00	14:30
24/02/2015	11:00	09:59	13:00	11:54	09:30	08:52	16:00	14:26	17:00	14:39
25/02/2015	11:00	09:55	13:00	11:54	09:30	08:30	16:00	14:23	17:00	14:35
26/02/2015	11:00	09:56	13:00	12:00	09:30	08:26	16:00	14:32	17:00	14:38
27/02/2015	11:00	09:52	13:00	11:53	09:30	08:27	16:00	14:50	17:00	14:30
28/02/2015	11:00	10:00	13:00	11:55	09:30	08:33	16:00	14:38	17:00	14:39

Table 26 – MSP Runs

Market Operator Monthly Report

Settlement Runs

Trading Day	INDICATIVE				INITIAL			
	Target Date	Actual Date	Target Time	Actual Time	Trading Day	Actual Date	Target Time	Actual Time
01/02/2015	02/02/2015	02/02/2015	17:00	15:36	01/02/2015	06/02/2015	12:00	08:09
02/02/2015	03/02/2015	03/02/2015	17:00	16:15	02/02/2015	09/02/2015	12:00	08:10
03/02/2015	04/02/2015	04/02/2015	17:00	16:24	03/02/2015	10/02/2015	12:00	07:40
04/02/2015	05/02/2015	05/02/2015	17:00	16:05	04/02/2015	11/02/2015	12:00	08:17
05/02/2015	06/02/2015	06/02/2015	17:00	16:08	05/02/2015	12/02/2015	12:00	08:02
06/02/2015	09/02/2015	09/02/2015	17:00	11:29	06/02/2015	13/02/2015	12:00	12:35
07/02/2015	09/02/2015	09/02/2015	17:00	12:45	07/02/2015	13/02/2015	12:00	14:04
08/02/2015	09/02/2015	09/02/2015	17:00	15:55	08/02/2015	13/02/2015	12:00	09:56
09/02/2015	10/02/2015	10/02/2015	17:00	15:51	09/02/2015	16/02/2015	12:00	08:07
10/02/2015	11/02/2015	11/02/2015	17:00	16:10	10/02/2015	17/02/2015	12:00	07:52
11/02/2015	12/02/2015	12/02/2015	17:00	15:44	11/02/2015	18/02/2015	12:00	09:16
12/02/2015	13/02/2015	13/02/2015	17:00	15:54	12/02/2015	19/02/2015	12:00	07:24
13/02/2015	16/02/2015	16/02/2015	17:00	12:20	13/02/2015	20/02/2015	12:00	11:45
14/02/2015	16/02/2015	16/02/2015	17:00	12:56	14/02/2015	20/02/2015	12:00	12:05
15/02/2015	16/02/2015	16/02/2015	17:00	15:47	15/02/2015	20/02/2015	12:00	08:09
16/02/2015	17/02/2015	17/02/2015	17:00	15:38	16/02/2015	23/02/2015	12:00	08:21
17/02/2015	18/02/2015	18/02/2015	17:00	16:28	17/02/2015	24/02/2015	12:00	08:15
18/02/2015	19/02/2015	19/02/2015	17:00	15:23	18/02/2015	25/02/2015	12:00	08:47
19/02/2015	20/02/2015	20/02/2015	17:00	15:49	19/02/2015	26/02/2015	12:00	08:30
20/02/2015	23/02/2015	23/02/2015	17:00	12:59	20/02/2015	27/02/2015	12:00	12:45
21/02/2015	23/02/2015	23/02/2015	17:00	16:52	21/02/2015	27/02/2015	12:00	13:59
22/02/2015	23/02/2015	23/02/2015	17:00	17:07	22/02/2015	27/02/2015	12:00	08:55
23/02/2015	24/02/2015	24/02/2015	17:00	16:25	23/02/2015	02/03/2015	12:00	08:39
24/02/2015	25/02/2015	25/02/2015	17:00	15:39	24/02/2015	03/03/2015	12:00	08:25
25/02/2015	26/02/2015	26/02/2015	17:00	15:36	25/02/2015	04/03/2015	12:00	08:10
26/02/2015	27/02/2015	27/02/2015	17:00	15:21	26/02/2015	05/03/2015	12:00	08:03
27/02/2015	02/03/2015	02/03/2015	17:00	11:58	27/02/2015	06/03/2015	12:00	12:14
28/02/2015	02/03/2015	02/03/2015	17:00	14:02	28/02/2015	06/03/2015	12:00	13:31

Table 27 - 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
01/10/2014	€227,003.16	€4,663.19	-€497,010.43
02/10/2014	€735,796.33	-€19,882.49	-€485,485.43
03/10/2014	€614,655.29	€10,871.94	-€504,078.89
04/10/2014	€431,006.78	-€7,434.77	-€448,528.17
05/10/2014	€824,385.72	€10,977.87	-€414,125.03
06/10/2014	€656,891.36	-€20,536.24	-€496,825.27
07/10/2014	€271,569.15	€7,652.10	-€515,909.62
08/10/2014	€317,802.51	-€36,024.01	-€520,694.36
09/10/2014	€271,129.06	-€14,582.31	-€525,428.89
10/10/2014	€442,983.70	-€26,317.26	-€517,313.97
11/10/2014	€311,801.03	€11,849.83	-€473,083.86
12/10/2014	€401,470.02	-€7,407.00	-€451,034.95
13/10/2014	€353,395.99	-€24,498.55	-€513,674.01
14/10/2014	€358,013.74	-€19,066.88	-€523,546.32
15/10/2014	€428,117.82	-€853.11	-€511,064.60
16/10/2014	€310,763.65	-€12,618.38	-€513,456.78
17/10/2014	€483,353.64	-€5,253.97	-€495,989.17
18/10/2014	€1,079,153.36	€23,841.90	-€428,037.24
19/10/2014	€506,373.44	-€2,840.01	-€416,208.56
20/10/2014	€565,796.01	-€13,121.95	-€490,614.73
21/10/2014	€722,480.43	€17,262.53	-€491,996.93
22/10/2014	€622,659.96	-€35,249.53	-€515,127.40
23/10/2014	€299,585.53	€2,462.07	-€513,013.48
24/10/2014	€505,499.46	-€8,503.06	-€505,991.61
25/10/2014	€899,840.05	€24,936.45	-€439,804.29
26/10/2014	€867,189.29	-€8,010.50	-€428,234.85
27/10/2014	€739,332.30	€6,690.55	-€444,796.70
28/10/2014	€553,302.80	-€61,012.80	-€519,037.78
29/10/2014	€754,919.24	-€6,314.82	-€530,046.54
30/10/2014	€636,202.61	-€3,395.44	-€513,730.14
31/10/2014	€508,522.20	-€17,778.71	-€506,014.82
01/11/2014	€546,540.25	-€6,912.86	-€457,086.94
02/11/2014	€318,890.98	-€12,990.39	-€443,511.55
03/11/2014	€569,073.38	-€4,244.85	-€532,442.41
04/11/2014	€669,098.98	-€16,550.06	-€528,960.67
05/11/2014	€546,197.90	-€18,613.60	-€550,138.29
06/11/2014	€637,275.88	-€14,424.86	-€537,063.83
07/11/2014	€382,071.17	-€11,250.48	-€531,305.30
08/11/2014	€416,600.72	-€18,592.20	-€500,732.00
09/11/2014	€324,554.00	-€6,024.57	-€481,392.83

Market Operator Monthly Report

10/11/2014	€506,959.62	-€12,756.86	-€540,675.17
11/11/2014	€305,371.45	-€44,629.39	-€565,550.06
12/11/2014	€532,498.02	-€28,281.20	-€554,600.49
13/11/2014	€345,990.75	-€17,901.27	-€553,923.16
14/11/2014	€343,466.61	-€1,320.38	-€534,716.18
15/11/2014	€494,457.91	€3,019.64	-€499,765.88
16/11/2014	€360,376.17	€7,373.68	-€482,898.42
17/11/2014	€553,003.49	-€24,556.35	-€545,895.52
18/11/2014	€415,247.34	€4,362.82	-€543,481.42
19/11/2014	€534,047.47	-€12,653.01	-€548,548.06
20/11/2014	€548,216.05	-€26,506.42	-€571,397.50
21/11/2014	€351,743.55	-€34,277.81	-€542,644.18
22/11/2014	€402,367.39	-€15,880.02	-€504,134.67
23/11/2014	€543,674.52	-€9,757.73	-€492,515.83
24/11/2014	€436,153.86	-€3,275.68	-€568,242.69
25/11/2014	€252,433.54	-€17,224.01	-€582,837.38
26/11/2014	€268,639.50	-€6,672.97	-€590,843.52
27/11/2014	€477,133.30	-€17,221.50	-€571,833.74
28/11/2014	€514,059.40	-€24,958.57	-€548,216.58
29/11/2014	€466,095.46	-€17,684.09	-€518,324.65
30/11/2014	€426,493.00	€228.22	-€497,681.99
01/12/2014	€425,729.84	-€17,667.29	-€564,559.17
02/12/2014	€608,884.75	-€9,337.96	-€580,266.39
03/12/2014	€506,617.59	-€48,599.53	-€604,794.55
04/12/2014	€524,348.76	-€26,701.42	-€598,118.36
05/12/2014	€461,085.09	-€25,561.67	-€572,477.87
06/12/2014	€568,753.24	-€12,613.70	-€516,202.71
07/12/2014	€484,127.53	€2,302.13	-€486,982.31
08/12/2014	€885,938.85	-€37,551.38	-€584,787.94
09/12/2014	€718,257.00	-€19,795.27	-€567,508.60
10/12/2014	€694,745.69	-€28,671.71	-€573,652.69
11/12/2014	€523,434.14	-€5,545.19	-€588,404.70
12/12/2014	€674,997.85	-€30,954.05	-€590,328.30
13/12/2014	€574,892.66	-€14,185.39	-€545,225.54
14/12/2014	€628,744.88	-€7,460.18	-€494,683.75
15/12/2014	€586,494.13	-€52,410.95	-€589,165.45
16/12/2014	€596,239.45	-€17,823.19	-€593,950.92
17/12/2014	€709,290.15	-€19,551.47	-€567,440.23
18/12/2014	€896,816.00	€2,905.28	-€554,081.45
19/12/2014	€995,932.96	€4,662.09	-€543,943.87
20/12/2014	€505,276.32	€4,952.12	-€510,278.41
21/12/2014	€1,032,186.15	€3,856.82	-€470,790.42
22/12/2014	€783,718.05	€19,779.93	-€528,728.17
23/12/2014	€580,782.79	€13,315.83	-€531,858.69
24/12/2014	€522,323.53	-€1,231.24	-€497,446.95
25/12/2014	€365,691.72	€1,963.64	-€464,366.17
26/12/2014	€540,788.12	-€8,172.04	-€457,472.59
27/12/2014	€646,748.39	€14,909.59	-€472,798.28
28/12/2014	€607,407.31	€7,022.19	-€497,727.79
29/12/2014	€555,367.66	€7,365.97	-€524,246.05
30/12/2014	€640,363.39	€14,384.93	-€505,239.86
31/12/2014	€603,204.62	€25,349.47	-€482,895.60
01/01/2015	€1,183,313.74	€22,302.55	-€432,637.80

Market Operator Monthly Report

02/01/2015	€719,060.46	€7,180.94	-€488,863.06
03/01/2015	€347,426.55	€22,383.30	-€509,883.65
04/01/2015	€368,525.85	€17,445.50	-€492,762.63
05/01/2015	€858,552.99	-€57,810.06	-€547,249.34
06/01/2015	€846,901.18	€24,062.40	-€565,026.70
07/01/2015	€754,789.55	€18,197.44	-€553,124.60
08/01/2015	€738,052.46	€5,912.21	-€560,161.59
09/01/2015	€799,401.56	€25,467.67	-€544,123.83
10/01/2015	€471,870.80	€23,541.24	-€489,886.95
11/01/2015	€804,037.00	€7,957.03	-€475,707.54
12/01/2015	€532,334.91	-€28,660.44	-€547,621.88
13/01/2015	€657,677.89	€13,214.17	-€585,068.72
14/01/2015	€769,303.38	-€3,725.21	-€591,675.05
15/01/2015	€571,780.65	€11,193.51	-€586,646.16
16/01/2015	€716,352.94	-€13,748.94	-€590,495.78
17/01/2015	€377,678.95	€8,181.35	-€550,070.38
18/01/2015	€166,250.30	-€3,020.40	-€514,226.93
19/01/2015	€698,080.04	-€37,908.42	-€609,509.53
20/01/2015	€437,319.37	-€40,386.17	-€614,164.65
21/01/2015	€667,403.57	-€48,191.01	-€614,449.45
22/01/2015	€542,321.93	-€24,334.20	-€614,473.92
23/01/2015	€461,543.80	-€1,291.99	-€571,701.09
24/01/2015	€375,088.02	€3,285.01	-€529,114.19
25/01/2015	€370,985.65	-€4,188.67	-€488,904.88
26/01/2015	€761,148.58	-€5,809.04	-€566,069.74
27/01/2015	€496,305.71	€3,197.27	-€578,227.32
28/01/2015	€679,942.31	-€5,819.24	-€567,278.15
29/01/2015	€842,221.29	-€19,380.22	-€582,068.03
30/01/2015	€498,670.69	-€9,939.77	-€568,791.17
31/01/2015	€621,711.25	€5,481.92	-€512,025.64
01/02/2015	€465,811.18	-€7,159.85	-€522,488.66
02/02/2015	€600,896.72	-€25,058.44	-€612,427.31
03/02/2015	€622,108.61	-€646.83	-€612,448.65
04/02/2015	€680,810.77	€3,948.07	-€619,315.92
05/02/2015	€524,358.46	-€557.07	-€614,409.37
06/02/2015	€507,125.10	-€3,973.79	-€600,953.78
07/02/2015	€552,603.96	-€3,844.92	-€533,253.15
08/02/2015	€513,181.80	-€8,706.01	-€526,790.04
09/02/2015	€721,677.70	-€75,869.33	-€603,738.54
10/02/2015	€612,792.69	-€54,689.56	-€615,533.69
11/02/2015	€397,523.20	-€49,206.80	-€612,372.90
12/02/2015	€584,234.54	-€9,961.83	-€589,104.96
13/02/2015	€581,694.45	-€18,426.02	-€571,753.77
14/02/2015	€519,304.93	-€11,018.35	-€524,311.37
15/02/2015	€402,543.48	€350.55	-€482,429.93
16/02/2015	€539,037.68	-€34,021.35	-€564,140.28
17/02/2015	€542,064.44	-€575.68	-€567,853.68
18/02/2015	€602,625.88	-€7,288.26	-€546,880.62
19/02/2015	€512,519.51	€18,470.83	-€556,672.04
20/02/2015	€592,720.94	-€10,749.31	-€567,934.87
21/02/2015	€632,840.91	€17,014.71	-€511,712.83
22/02/2015	€870,894.49	€1,282.86	-€484,230.97
23/02/2015	€674,860.17	-€5,480.97	-€557,984.41
24/02/2015	€512,106.06	-€7,870.22	-€569,013.81

Market Operator Monthly Report

25/02/2015	€642,952.47	-€31,481.05	-€567,195.52
26/02/2015	€488,203.62	-€68,355.71	-€541,080.48
27/02/2015	€702,055.03	-€278,358.30	-€551,568.91
28/02/2015	€763,470.11	-€156,795.83	-€490,683.19

Table 28 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

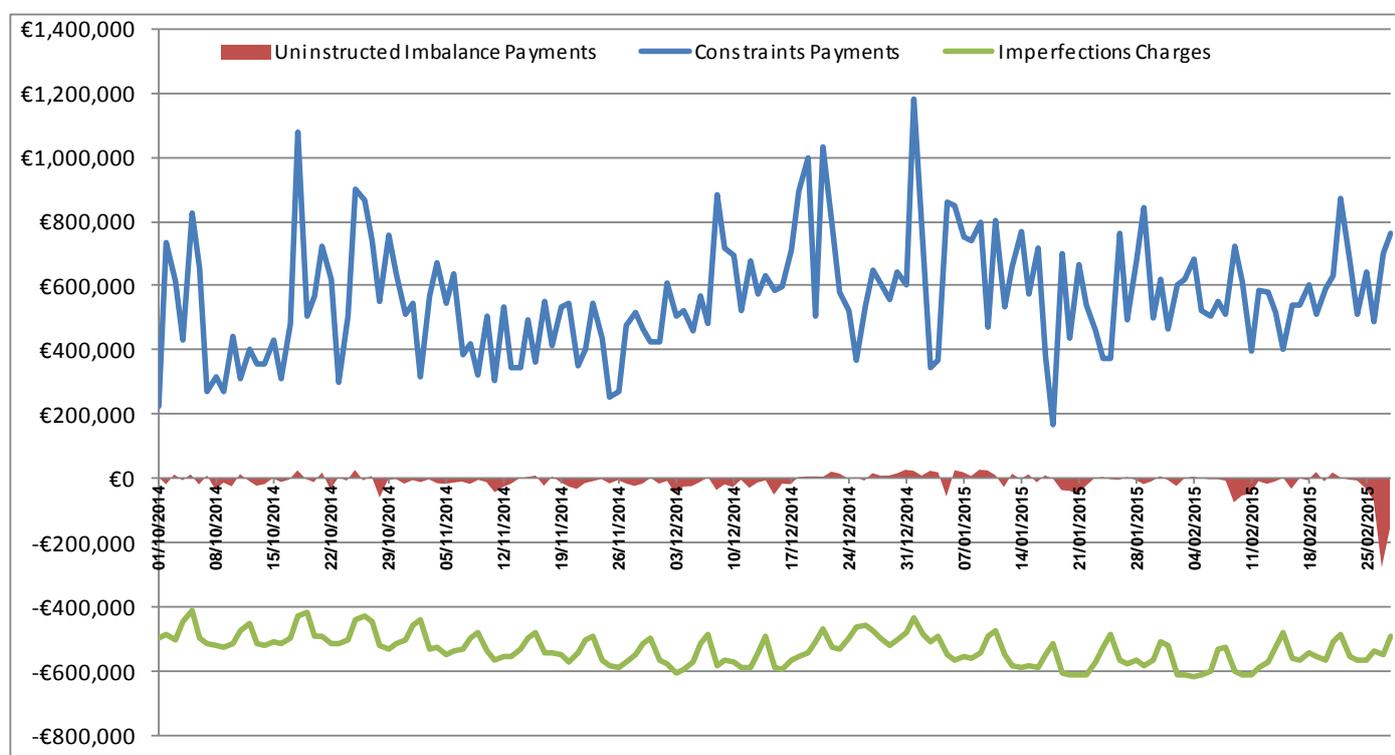


Figure 24 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

Week No	Make Whole Payments
38	€202,188.33
39	€225,015.64
40	€280,671.13
41	€186,568.53
42	€159,900.73
43	€172,804.93
44	€117,287.97
45	€69,322.58
46	€151,346.18
47	€116,593.30
48	€89,395.20
49	€75,360.41
50	€169,324.41
51	€121,591.48
52	€55,670.15
1	€80,155.98
2	€72,635.72
3	€117,670.85
4	€162,664.95

5	€78,694.34
6	€58,735.16
7	€160,187.55
8	€132,758.27

Table 29 - Make Whole Payments

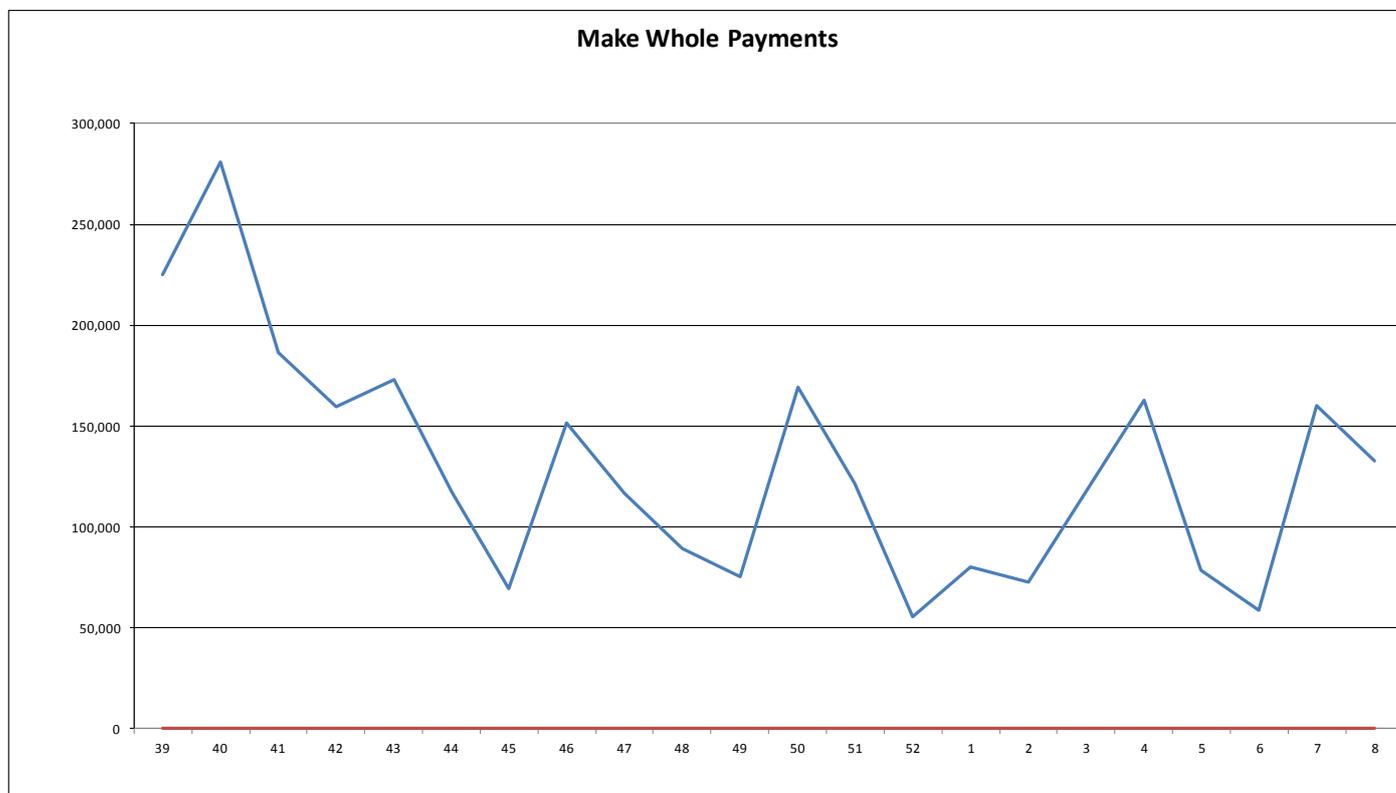


Figure 25 - Make Whole Payments

Week No	Testing Charges
39	-€64,349.25
40	-€23,212.88
41	-€8,173.18
42	-€106,220.13
43	-€106,488.24
44	-€74,217.72
45	-€13,149.01
46	€31,147.27
47	-€34,993.39
48	-€8,926.09
49	-€31,711.41
50	-€91,587.25
51	-€43,797.04
52	€0.00
1	-€69,863.70
2	€0
3	€0
4	€0
5	-€116,570.26
6	-€15,192.63

7	-€9,394.34
8	-€56,342.39

Table 30 - Testing Charges

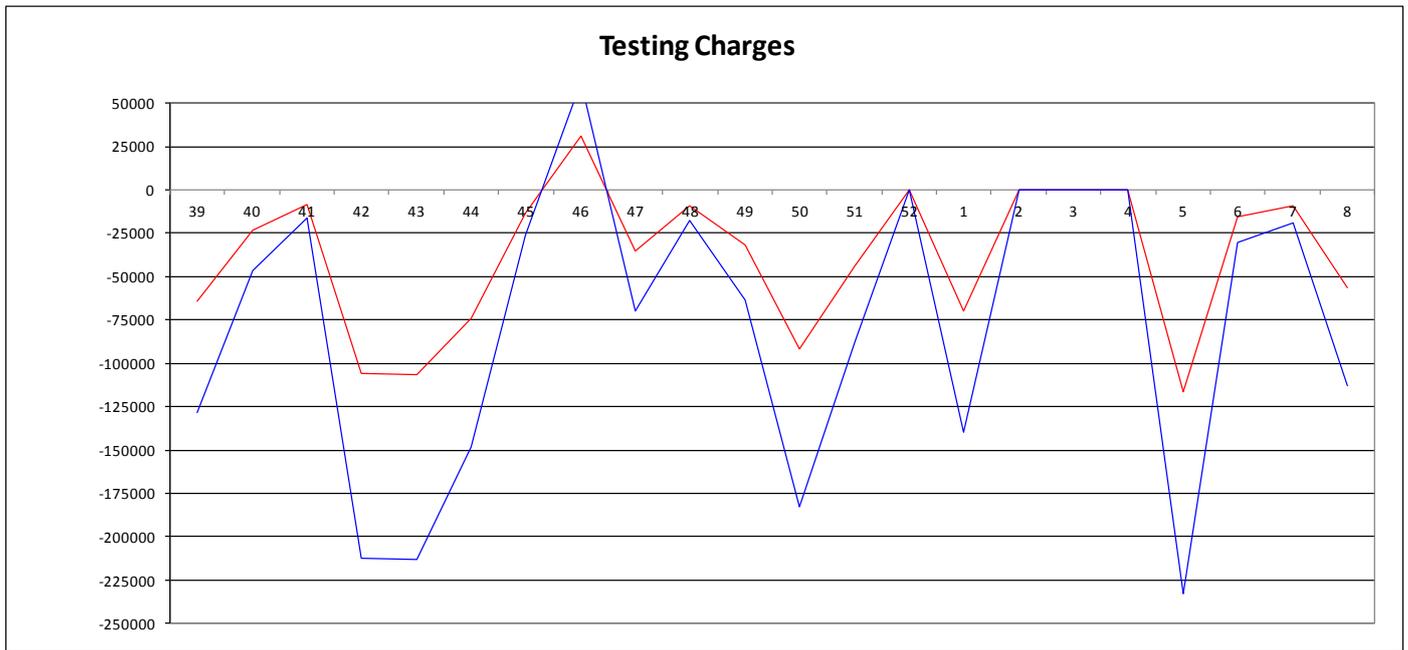


Figure 26 - Testing Charges

Market Operator Monthly Report

13 Appendix F: Default Commercial Offer Data Used

The table below lists for each unit the number of times in operations during February 2015 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_400090	DSU_401620			28	28
PT_400090	DSU_401610	27			27
PT_400138	DSU_401590	28			28
PT_400111	DSU_401390		9		9
PT_400116	DSU_401400	28			28
PT_400090	DSU_401610			2	2
PT_400111	DSU_401390			1	1
PT_400090	DSU_401270	28			28
PT_400106	DSU_401330	36			36
PT_400111	DSU_401390	19			19
PT_400133	DSU_401530	28			28
PT_400133	DSU_401530			2	2
PT_400124	DSU_401490	29			29
PT_400024	GU_400120	28			28
PT_400024	GU_400121	28			28
PT_400026	GU_400140	28			28
PT_400030	GU_400180	45			45
PT_400030	GU_400181	46			46
PT_400030	GU_400182	46			46
PT_400030	GU_400183	41			41
PT_400030	GU_400200	43			43
PT_400030	GU_400201	43			43
PT_400030	GU_400202	41			41
PT_400030	GU_400203	44			44
PT_400030	GU_400210	42			42
PT_400030	GU_400211	41			41
PT_400030	GU_400220	40			40
PT_400030	GU_400221	41			41
PT_400030	GU_400240	42			42
PT_400030	GU_400250	41			41
PT_400030	GU_400251	42			42
PT_400030	GU_400252	41			41
PT_400030	GU_400260	41			41
PT_400030	GU_400270	42			42
PT_400030	GU_400271	42			42
PT_400030	GU_400272	43			43
PT_400030	GU_400280	40			40
PT_400030	GU_400281	40			40
PT_400030	GU_400290	41			41
PT_400030	GU_400300	46			46
PT_400030	GU_400311	46			46
PT_400030	GU_400323	45			45
PT_400030	GU_400360	39			39
PT_400030	GU_400361	39			39
PT_400030	GU_400362	40			40
PT_400030	GU_400363	40			40

Market Operator Monthly Report

PT_400030	GU_400370	41		41
PT_400030	GU_400850	46		46
PT_400032	GU_400430	26		26
PT_400034	GU_400940	28		28
PT_400034	GU_401090	27		27
PT_400034	GU_401440	28		28
PT_400035	GU_400480	53		53
PT_400037	GU_400500	30		30
PT_400041	GU_400530	51		51
PT_400044	GU_400540	53		53
PT_400054	GU_400620	28		28
PT_400055	GU_400630	27		27
PT_400064	GU_400750	28		28
PT_400064	GU_400751	28		28
PT_400064	GU_400752	28		28
PT_400064	GU_400753	28		28
PT_400064	GU_400754	28		28
PT_400064	GU_400760	28		28
PT_400064	GU_400761	28		28
PT_400064	GU_400762	28		28
PT_400064	GU_400770	28		28
PT_400064	GU_400771	28		28
PT_400064	GU_400780	28		28
PT_400064	GU_400781	28		28
PT_400075	GU_400930	74		74
PT_400077	GU_400950	27		27
PT_400078	GU_401010	28		28
PT_400078	GU_401011	28		28
PT_400087	GU_401230	8		8
PT_400148	GU_401690	12		12
PT_400151	GU_401770	1		1
PT_500024	GU_500040	38		38
PT_500024	GU_500041	28		28
PT_500027	GU_500130	80		80
PT_500027	GU_500131	80		80
PT_500027	GU_500140	80		80
PT_500032	GU_501290	17		17
PT_500040	GU_500280	28		28
PT_500040	GU_500281	28		28
PT_500040	GU_500282	28		28
PT_500040	GU_500283	28		28
PT_500040	GU_500284	28		28
PT_500045	GU_500820	28		28
PT_500045	GU_500821	28		28
PT_500045	GU_500822	28		28
PT_500045	GU_500823	28		28
PT_500045	GU_500824	28		28
PT_500045	GU_500825	28		28
PT_500048	GU_500904	45		45
PT_500050	GU_501040	27		27
PT_500050	GU_501050	26		26
PT_500050	GU_501150	27		27
PT_500050	GU_501190	27		27
PT_500053	GU_501130	28		28

Market Operator Monthly Report

PT_500066	GU_501210	27			27
PT_400021	GU_400021			28	28
PT_400021	GU_400050			28	28
PT_400021	GU_400060			28	28
PT_400021	GU_400070			28	28
PT_400021	GU_400080			28	28
PT_400021	GU_400591			28	28
PT_400021	GU_400600			28	28
PT_400021	GU_400910			28	28
PT_400021	GU_400920			28	28
PT_400021	GU_401080			28	28
PT_400021	GU_401380			28	28
PT_400021	GU_401600			28	28
PT_400021	GU_401640			28	28
PT_400025	GU_400130			28	28
PT_400030	GU_400310			28	28
PT_400032	GU_400430			2	2
PT_400034	GU_401090			1	1
PT_400038	GU_400550			28	28
PT_400050	GU_400650			28	28
PT_400050	GU_400660			28	28
PT_400050	GU_401000			28	28
PT_400050	GU_401060			28	28
PT_400050	GU_401150			28	28
PT_400050	GU_401240			28	28
PT_400050	GU_401250			28	28
PT_400050	GU_401290			28	28
PT_400050	GU_401360			28	28
PT_400055	GU_400630			1	1
PT_400062	GU_400730			28	28
PT_400062	GU_400731			28	28
PT_400062	GU_400840			28	28
PT_400077	GU_400950			1	1
PT_400082	GU_401100			28	28
PT_400087	GU_401230			20	20
PT_400151	GU_401770			28	28
PT_400152	GU_401710			28	28
PT_400152	GU_401720			28	28
PT_400152	GU_401730			28	28
PT_400152	GU_401740			28	28
PT_400152	GU_401750			28	28
PT_400152	GU_401760			28	28
PT_500021	GU_500010			28	28
PT_500021	GU_500740			28	28
PT_500021	GU_501160			28	28
PT_500032	GU_500211			28	28
PT_500032	GU_501120			28	28
PT_500039	GU_500270			28	28
PT_500044	GU_500720			28	28
PT_500047	GU_500790			28	28
PT_500048	GU_500904			1	1
PT_500050	GU_501040			1	1
PT_500050	GU_501050			2	2
PT_500050	GU_501150			1	1

Market Operator Monthly Report

PT_500050	GU_501190			1	1
PT_500061	GU_501170			28	28
PT_500062	GU_501180			28	28
PT_500066	GU_501210			1	1
PT_500073	GU_501230			28	28
PT_500074	GU_501250			28	28
PT_400021	I_ROIEWIC	28			28
PT_500021	I_NIMOYLE	28			28
PT_500075	I_NIMOYLE	80			80
PT_500024	I_NIMOYLE	41			41
PT_500069	I_NIMOYLE	84			84
PT_500058	I_NIMOYLE	26			26
PT_500031	I_NIMOYLE	30			30
PT_400113	I_ROIEWIC	26			26
PT_400096	I_ROIEWIC	84			84
PT_500037	I_NIMOYLE	28			28
PT_400115	I_ROIEWIC	30			30
PT_400136	I_ROIEWIC	62			62
PT_400108	I_ROIEWIC	63			63
PT_500070	I_NIMOYLE	64			64
PT_400099	I_ROIEWIC	28			28
PT_400030	I_ROIEWIC	28			28
Total		4090	9	1409	5508
Percentage		74.26%	0.16%	25.58%	100.00%

Table 31 – 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
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	£305,793.65	£76,911.71	£2,819.89	£479,013.35	£22,451.87	£9,128.65	£381,194.91	£0.00	£0.00	96,269,985.03
	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	£1,449,159.95	£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
Apr-14	ROI	£62,098,778.40	£21,155,742.39	£1,388,175.41	£528,104.58	£142,466.39	£4,901.73	£242,053.48	£38,030.86	£1,783.00	£0.00	£0.00	£0.00	85,600,036.24
	NI	£26,448,426.91	£9,644,850.74	£386,840.18	£307,948.88	£77,962.26	£2,649.15	£53,805.05	£9,613.13	£381.03	£0.00	£0.00	£0.00	36,932,477.33
May-14	ROI	£68,945,192.38	£22,029,381.87	£1,615,436.17	£629,905.18	£213,410.99	£7,659.07	£192,421.65	£21,030.53	£1,110.05	£429,407.30	£0.00	£0.00	94,084,955.19
	NI	£28,649,957.73	£7,313,397.03	£439,831.96	£149,812.37	£34,908.87	£997.82	£58,386.93	£9,959.93	£468.77	£0.03	£0.00	£0.00	36,657,721.44
Jun-14	ROI	£52,841,750.77	£17,596,854.80	£1,312,068.35	£423,771.26	£115,750.72	£4,162.65	£89,169.46	£18,685.28	£1,014.73	£28,526.30	£0.00	£0.00	72,431,754.32
	NI	£21,944,762.06	£6,361,219.34	£345,120.63	£120,971.43	£44,784.33	£1,003.03	£41,125.48	£9,461.42	£415.67	£2,532.18	£0.00	£0.00	28,871,395.57
Jul-14	ROI	£48,255,770.91	£22,988,780.17	£1,292,701.68	£332,606.61	£88,357.34	£2,943.28	£85,242.72	£17,526.18	£1,047.39	£0.00	£0.00	£0.00	73,064,976.28
	NI	£16,832,807.07	£5,122,118.14	£325,108.62	£91,338.63	£25,719.39	£870.76	£34,166.04	£7,520.83	£436.14	£0.00	£0.00	£0.00	22,440,085.62
Aug-14	ROI	£65,650,453.03	£55,349,682.44	£856,456.83	£281,934.15	£56,929.88	£1,558.86	£451,006.63	£29,817.73	£839.90	£68,857.79	£0.00	£0.00	122,747,537.24
	NI	£25,773,047.64	£16,395,217.13	£213,118.58	£112,874.22	£37,025.56	£783.98	£25,242.43	£5,150.11	£140.40	£0.00	£0.00	£0.00	42,562,600.05
Sep-14	ROI	£73,166,499.86	£17,774,079.00	£1,638,145.68	£285,506.09	£62,431.70	£3,367.28	£92,320.83	£30,020.38	£728.19	£0.00	£0.00	£0.00	93,053,099.01
	NI	£24,828,028.32	£5,414,449.74	£421,681.34	£62,719.19	£15,276.27	£566.66	£41,391.12	£13,194.54	£660.78	£0.00	£0.00	£0.00	30,797,967.96
Oct-14	ROI	£24,219,443.57	£5,293,829.01	£290,759.61	£125,095.27	£15,188.14	£796.75	£32,076.91	£6,465.54	£355.27	£0.00	£0.00	£0.00	29,984,010.07
	NI	£73,931,567.89	£18,999,271.36	£1,111,306.76	£521,095.61	£105,483.15	£5,765.50	£89,815.40	£9,518.03	£802.55	£0.00	£0.00	£0.00	94,774,626.25
Nov-14	ROI	£57,386,075.03	£21,066,561.05	£829,482.91	£519,431.32	£147,151.65	£6,123.28	£79,434.93	£23,622.83	£721.00	£0.00	£0.00	£0.00	80,058,604.00
	NI	£21,159,632.98	£6,853,966.46	£220,983.06	£50,691.24	£27,250.12	£653.21	£26,795.35	£6,589.23	£253.47	£0.00	£0.00	£0.00	28,346,815.12
Dec-14	ROI	£70,930,088.87	£29,867,271.70	£888,221.25	£635,976.36	£143,088.63	£7,086.94	£116,364.21	£26,279.71	£995.87	£0.00	£0.00	£0.00	102,615,373.54
	NI	£24,123,259.48	£7,725,422.06	£238,369.94	£58,794.95	£14,543.55	£696.33	£34,690.50	£7,234.36	£296.35	£0.00	£0.00	£0.00	32,203,307.52
Jan-15	ROI	£66,217,285.22	£32,948,586.09	£1,048,029.61	£438,657.65	£106,047.92	£3,853.63	£150,902.14	£27,588.16	£819.15	£0.00	£2,703.81	£0.00	100,944,473.38
	NI	£27,989,159.87	£8,572,662.67	£280,425.53	£42,989.83	£9,581.57	£365.00	£37,526.70	£7,104.61	£229.56	£0.00	£1,338.36	£0.00	36,941,383.70
Feb-15	ROI	£65,650,453.03	£55,349,682.44	£856,456.83	£281,934.15	£56,929.88	£1,558.86	£451,006.63	£29,817.73	£839.90	£68,857.79	£0.00	£0.00	122,747,537.24
	NI	£25,773,047.64	£16,395,217.13	£213,118.58	£112,874.22	£37,025.56	£783.98	£25,242.43	£5,150.11	£140.40	£0.00	£0.00	£0.00	42,562,600.05

Table 32 - 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
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	€10,349.43	€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
Apr-14	ROI	€65,482,679.64	€21,981,963.17	€549,302.08	€147,627.43	€4,399.40	€259,726.57	€38,566.49	€1,783.33	€0.00	€0.00	€0.00	€88,466,048.11
	NI	€25,517,456.45	€8,979,409.88	€303,950.50	€73,719.22	€2,138.60	€56,294.66	€9,188.57	€381.08	€0.00	€0.00	€0.00	€34,942,538.96
May-14	ROI	€68,502,489.93	€22,405,052.21	€652,683.44	€210,307.65	€7,807.32	€249,029.58	€16,425.79	€1,110.17	€9,581.32	€0.00	€0.00	€92,054,487.41
	NI	€27,515,054.00	€7,036,489.15	€150,145.26	€37,452.65	€999.79	€81,713.52	€13,718.04	€468.77	€3.89	€0.00	€0.00	€34,836,045.07
Jun-14	ROI	€53,863,542.49	€16,268,861.66	€424,333.36	€121,415.36	€4,245.54	€106,227.35	€17,318.53	€1,014.63	€10,805.33	€0.00	€0.00	€70,817,764.25
	NI	€18,301,490.12	€7,464,864.99	€121,134.45	€40,186.30	€1,005.32	€50,770.87	€10,564.39	€415.66	€29.76	€0.00	€0.00	€25,990,461.86
Jul-14	ROI	€50,929,138.15	€21,772,067.06	€326,631.36	€82,858.43	€2,938.18	€123,130.56	€17,118.42	€1,016.51	€0.00	€0.00	€0.00	€73,254,898.67
	NI	€12,936,147.70	€6,035,816.09	€91,479.13	€29,875.87	€813.16	€67,310.27	€7,807.37	€427.29	€0.00	€0.00	€0.00	€19,169,676.88
Aug-14	ROI	€76,295,371.52	€16,503,906.00	€283,973.76	€42,797.07	€2,738.01	€125,676.42	€0.00	€1,327.83	€29.36	€0.00	€0.00	€93,255,819.97
	NI	€19,828,437.97	€15,954,828.70	€108,022.71	€28,545.69	€367.07	€16,957.65	€4,432.19	€141.23	€0.00	€0.00	€0.00	€35,941,733.21
Sep-14	ROI	€73,630,247.02	€17,405,067.16	€261,367.00	€62,924.88	€3,377.33	€73,033.72	€11,845.94	€728.13	€0.00	€0.00	€0.00	€91,448,591.18
	NI	€22,272,153.08	€5,742,482.51	€49,069.86	€14,962.35	€71.66	€41,404.59	€13,672.05	€509.28	€0.00	€0.00	€0.00	€28,134,971.38
Oct-14	ROI	€19,828,437.97	€15,954,828.70	€108,022.71	€28,545.69	€367.07	€16,957.65	€4,432.19	€141.23	€0.00	€0.00	€0.00	€35,941,733.21
	NI	€18,391,944.98	€5,868,972.09	€82,257.95	€15,709.16	€1,031.70	€42,677.16	€6,422.11	€498.29	€0.00	€0.00	€0.00	€24,409,513.44
Nov-14	ROI	€64,818,088.97	€20,480,936.98	€530,386.99	€157,754.12	€6,116.91	€78,674.36	€23,606.67	€1,289.81	€0.00	€0.00	€0.00	€86,096,854.81
	NI	€14,616,605.70	€7,312,194.38	€50,960.79	€18,897.71	€653.20	€37,498.77	€6,592.72	€254.29	€0.00	€0.00	€0.00	€22,043,657.56
Dec-14	ROI	€79,262,340.64	€30,252,803.13	€636,211.01	€143,171.30	€7,087.15	€116,495.94	€25,330.11	€995.97	€0.00	€0.00	€0.00	€110,444,435.25
	NI	€17,625,339.05	€7,511,303.13	€58,743.90	€14,475.87	€679.17	€34,724.44	€7,982.34	€296.61	€0.00	€0.00	€0.00	€25,253,544.51
Jan-15	ROI	€77,706,417.44	€34,394,754.66	€438,764.21	€107,475.98	€4,105.28	€98,914.59	€27,079.30	€830.89	€14,240.78	€3,537.75	€0.00	€112,796,120.88
	NI	€21,735,748.95	€7,476,289.80	€38,275.71	€8,505.48	€324.11	€25,331.16	€7,456.18	€248.46	€0.00	€691.42	€0.00	€29,292,871.27
Feb-15	ROI	€73,470,092.53	€55,924,536.86	€296,450.78	€68,641.91	€1,587.00	€108,844.27	€30,840.66	€843.06	€0.00	€0.00	€0.00	€129,901,837.07
	NI	€19,828,437.97	€15,954,828.70	€108,022.71	€28,545.69	€367.07	€16,957.65	€4,432.19	€141.23	€0.00	€0.00	€0.00	€35,941,733.21

Table 33 - 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
03/10/2014	38	-€115,563.34	-€ 12,716.83
10/10/2014	39	€103,327.94	€49,084.94
17/10/2014	40	-€315,014.02	-€ 48,688.42
24/10/2014	41	€234,738.53	€13,856.57
31/10/2014	42	€833,278.35	-€228,026.23
07/11/2014	43	€1,209,277.49	€172,019.41
14/11/2014	44	-€89,236.37	-€18,016.46
21/11/2014	45	-€726,843.59	-€105,801.85
28/11/2014	46	-€504,700.82	-€60,211.13
05/12/2014	47	-€783,945.26	-€105,665.85
12/12/2014	48	-€481,481.35	-€72,270.22
19/12/2014	49	€485,102.80	€53,433.64
31/12/2014	50	€980,523.50	€ 148,117.94
06/01/2015	51	€1,093,199.99	-€115,434.63
09/01/2015	52	€1,320,639.28	-€ 84,567.47
16/01/2015	1	€1,142,575.16	-€178,714.26
23/01/2015	2	€496,291.68	-€87,488.46
30/01/2015	3	-€871,479.91	€86,389.82
06/02/2015	4	€371,162.79	-€86,251.15
13/02/2015	5	-€198,874.86	€21,560.90
20/02/2015	6	-€341,073.88	€60,600.73
27/02/2015	7	€9,930.09	-€86,398.49

Table 34 – 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 2014	-€361.28	-€ 968.24
November 2014	-€348.12	-€0.03
December 2014	-€393.11	€0.00
January 2015	-€416.65	€0.04
February 2015	-€364.18	€0.02

Table 35 - 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
<u>October 2014</u>	<u>10/10/2014</u>	<u>03/10/2014</u> <u>15/10/2014</u> <u>28/10/2014</u>	<u>06/10/2014</u> <u>13/10/2014</u> <u>29/10/2014</u>	<u>06/10/2014</u> <u>13/10/2014</u> <u>27/10/2014</u>	<u>19/10/2014</u>
<u>November 2014</u>	-	<u>02/11/2014</u> <u>11/11/2014</u> <u>15/11/2014</u> <u>25/11/2014</u>	<u>20/11/2014</u> <u>24/11/2014</u> <u>26/11/2014</u>	<u>12/11/2014</u> <u>20/11/2014</u> <u>26/11/2014</u>	-
<u>December 2014</u>	<u>14/12/2014</u>	<u>04/12/2014</u> <u>14/12/2014</u> <u>25/12/2014</u>	<u>01/12/2014</u>	<u>04/12/2014</u>	-
<u>January 2015</u>	<u>06/01/2015</u>	<u>12/01/2015</u> <u>15/01/2015</u> <u>21/01/2015</u> <u>23/01/2015</u>	<u>03/01/2015</u>	<u>28/01/2015</u>	<u>16/01/2015</u>
<u>February 2015</u>	-	<u>06/02/2015</u> <u>07/02/2015</u> <u>09/02/2015</u> <u>13/02/2015</u> <u>18/02/2015</u> <u>23/02/2015</u>	<u>24/02/2015</u>	<u>28/02/2015</u>	<u>05/02/2015</u> <u>10/02/2015</u>

Table 36 - MIP Algorithms

Operational Date	Trade Date	Run Type	LR Peak SMP	MIP Peak SMP	Published
02/10/2014	03/10/2014	EA2	€1000	€298.79	MIP
07/10/2014	06/10/2014	EP1	€1000	€287.16	MIP
10/10/2014	06/10/2014	EP2	€1000	€288.65	MIP
09/10/2014	10/10/2014	EA1	€1000	€338.11	MIP
14/10/2014	13/10/2014	EP1	€1000	€141.67	MIP

Market Operator Monthly Report

17/10/2014	13/10/2014	EP2	€1,000	€269.41	MIP
14/10/2014	15/10/2014	EA2	€1,000	€219.27	MIP
19/10/2014	19/10/2014	WD1	€1,000	€117.07	MIP
31/10/2014	27/10/2014	EP2	€567.43	€452.53	MIP
27/10/2014	28/10/2014	EA2	€1000	€255.85	MIP
30/10/2014	29/10/2014	EP1	€1000	€436.71	MIP
01/11/2014	02/11/2014	EA2	€1000	€215.23	MIP
10/11/2014	11/11/2014	EA2	€1000	€229.26	MIP
14/11/2014	15/11/2014	EA2	€1000	€369.02	MIP
24/11/2014	25/11/2014	EA2	€572.13	€424.16	MIP
21/11/2014	20/11/2014	EP1	€1000	€228.86	MIP
27/11/2014	26/11/2014	EP1	€1000	€380.87	MIP
25/11/2014	24/11/2014	EP1	€630.52	€560.63	MIP
16/11/2014	12/11/2014	EP2	€1000	€357.67	MIP
24/11/2014	20/11/2014	EP2	€1000	€228.14	MIP
30/11/2014	26/11/2014	EP2	€1,000	€455.21	MIP
01/12/2014	30/11/2014	EP1	€554.66	€841.81	MIP
04/12/2014	05/12/2014	EA2	€1000	€271.08	MIP
04/12/2014	30/11/2014	EP2	€554.65	€439.23	MIP
14/12/2014	15/12/2014	EA1	€585.68	€241.97	MIP
14/12/2014	15/12/2014	EA2	€585.68	€242.87	MIP
25/12/2014	26/12/2014	EA2	€584.33	€71.42	MIP
03/01/2015	02/01/2015	EP1	€560.46	€244.25	MIP
06/01/2015	07/01/2015	EA1	€550.32	€230.74	MIP
12/01/2015	13/01/2015	EA2	€1000	€162.06	MIP
15/01/2015	16/01/2015	EA2	€1000	€210.05	MIP
16/01/2015	16/01/2015	WD1	€557.82	€176.01	MIP
21/01/2015	22/01/2015	EA2	€554.69	€183.59	MIP
23/01/2015	24/01/2015	EA2	€1000	€361.30	MIP
28/01/2015	24/01/2015	EP2	€1000	€358.00	MIP
05/02/2015	05/02/2015	WD1	€583.65	€461.14	MIP
06/02/2015	07/02/2015	EA2	€1000	€201.17	MIP
07/02/2015	08/02/2015	EA2	€1000	€238.69	MIP
09/02/2015	10/02/2015	EA2	€1000	€211.44	MIP
10/02/2015	10/02/2015	WD1	€1000	€206.00	MIP
13/02/2015	14/02/2015	EA2	€1000	€920.77	MIP
18/02/2015	19/02/2015	EA2	€1000	€475.15	MIP
23/02/2015	24/02/2015	EA2	€1000	€239.26	MIP
24/02/2015	23/02/2015	EP1	€1000	€206.00	MIP
28/02/2015	24/02/2015	EP2	€1000	€418.22	MIP

Table 37 - MIP Vs LR Peak Price Comparison