



Market Operator Monthly Report

July 2014

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1 Executive Summary

This Single Electricity Market Operator's (SEMO) report covers the month of operation of July 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 July 2014, Settlements had no late publications as per the Trading and Settlement code.

160 general queries were received in July 2014. During the same period 148 general queries were resolved.

There were three defaults by Participants during July 2014. The largest of these was an Energy Initial invoice for €23,886.39 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	3	-
	Credit Risk Management	-	-
SEMO	Pricing & Scheduling	-	-
	Settlement	-	-
	Funds Transfer	-	-
	Credit Risk Management	-	-
	Other	-	-
Total		3	-

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.

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Joining and Terminating Parties and Units

No parties joined the Market in July 2014.

There were no terminating parties in July 2014.

Two new units became effective in the Market in July 2014

- Dan Towmey Waterpower Engineering Limited (PT_400045/SU_400165)
- Taurbeg Wind Farm (PT_400021/GU_401640)

One unit was de-registered from the Market in July 2014

- Taurbeg Wind Farm (PT_400123/GU_401470)

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

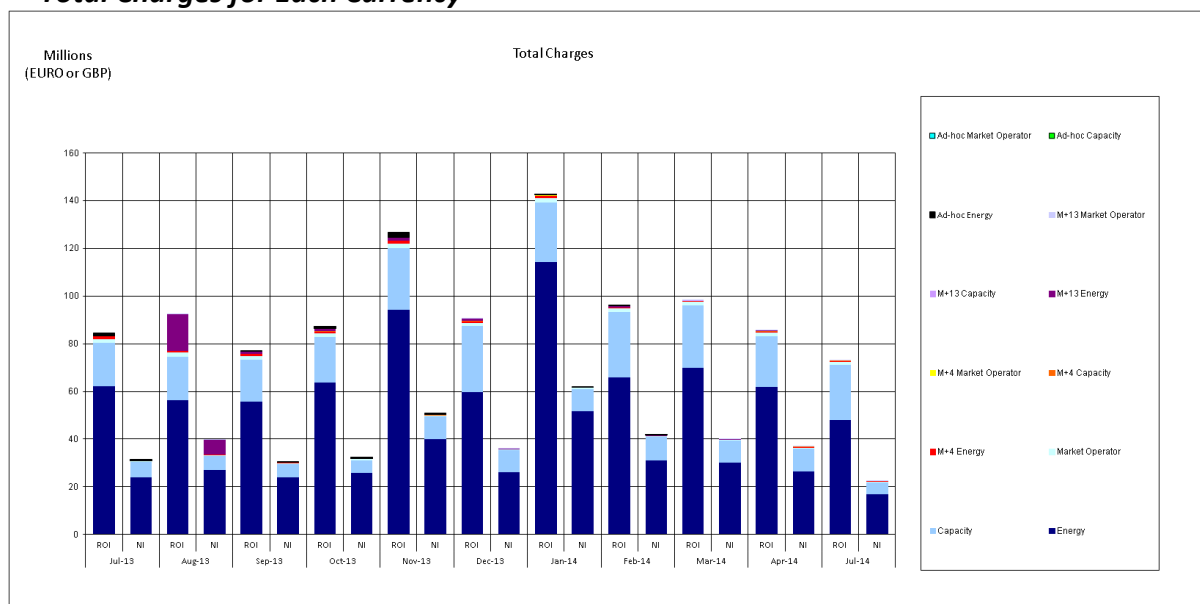


Figure 1 - Total Charges for Each Currency

Market	July 2014	
	ROI	NI
Energy	€48,255,771	£16,832,807
Capacity	€22,988,780	£5,122,118
Market Operator	€1,292,702	£325,109
M+4 Energy	€332,607	£91,339
M+4 Capacity	€88,357	£25,719
M+4 Market Operator	€2,943	£871
M+13 Energy	€85,243	£34,166
M+13 Capacity	€17,526	£7,521
M+13 Market Operator	€1,047	£436
Ad-hoc Energy	€0	£0
Ad-hoc Capacity	€0	£0
Ad-hoc Market Operator	€0	£0
Total	€73,064,976	£22,440,086

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

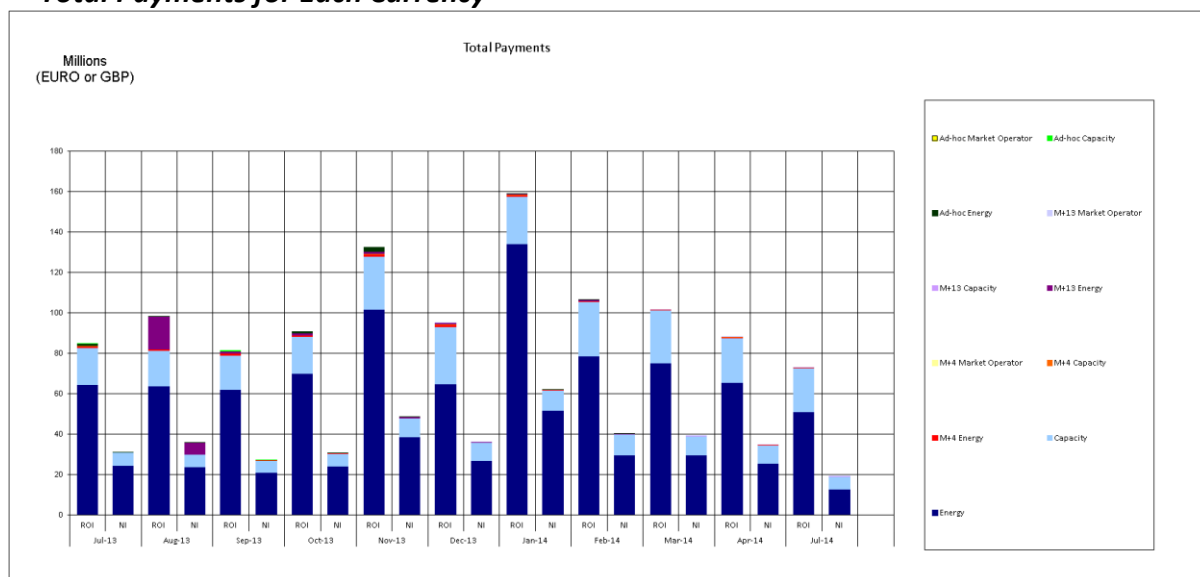


Figure 2 - Total Payments for Each Currency

Market	July 2014	
	ROI	NI
Energy	€50,929,138	£12,936,148
Capacity	€21,772,067	£6,035,816
M+4 Energy	€326,631	£91,479
M+4 Capacity	€82,858	£29,876
M+4 Market Operator	€2,938	£813
M+13 Energy	€123,131	£67,310
M+13 Capacity	€17,118	£7,807
M+13 Market Operator	€1,017	£427
Ad-hoc Energy	€0	£0
Ad-hoc Capacity	€0	£0
Ad-hoc Market Operator	€0	£0
Total	€73,254,899	£19,169,677

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:

July 2014	
Imbalance (Energy Only)	-€12,977,979.92

Table 4 - Balancing Costs for Energy Settlement

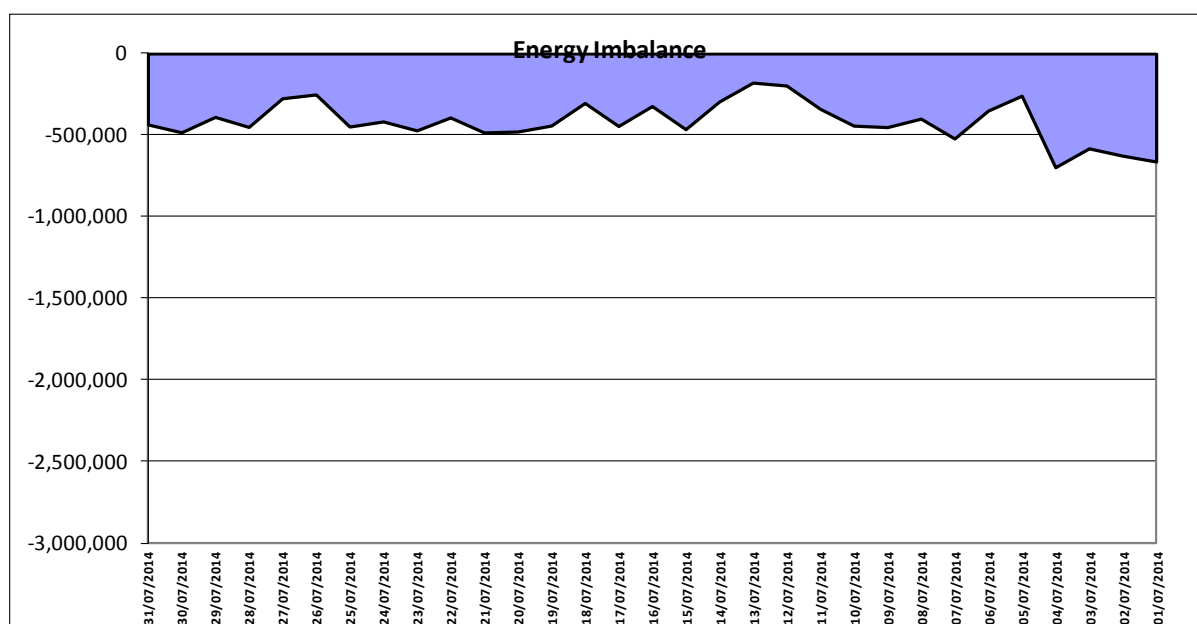


Figure 3 – Energy Imbalances

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
04/07/2014	25	-€559,663.83	-€77,985.84
11/07/2014	26	-€486,978.50	€30,288.10
18/07/2014	27	-€64,357.82	€33,032.13
25/07/2014	28	-€1,005,927.10	-€40,984.50

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:

July 2014	
Capacity Charges	€-37,045,255.52
Capacity Payments	€37,045,017.82
Balancing Costs	€-237.70
VAT	-€233.18

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
28/06/2014	04/07/2014	25	-£15,056.53	£-	-£15,056.53
05/07/2014	11/07/2014	26	£6,731.51	£4,357.88	£11,089.39
12/07/2014	18/07/2014	27	£2,564.58	£-	£2,564.58
19/07/2014	25/07/2014	28	-£2,922.08	£347.80	-£2,574.29

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 £11,089.39 and a cost of €-15,056.53. 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
12/08/2014	July 2014	-19,933.25

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
€162,679,216.20	-€2,312,311.78	€3,725,703.76	-€120,402,753.89

Table 9 – Cumulative Imperfections Costs Vs Budget

This is demonstrated in the figure below.

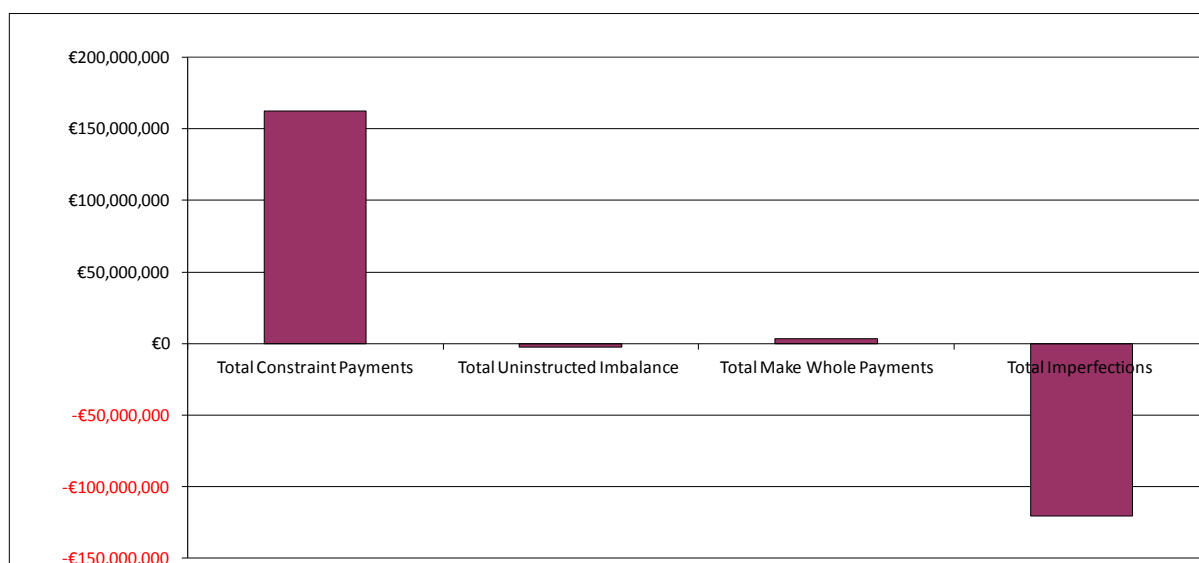


Figure 4 - Cumulative Imperfections Costs Vs Budget

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 March 2014 and M+13 resettlement period of June 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.

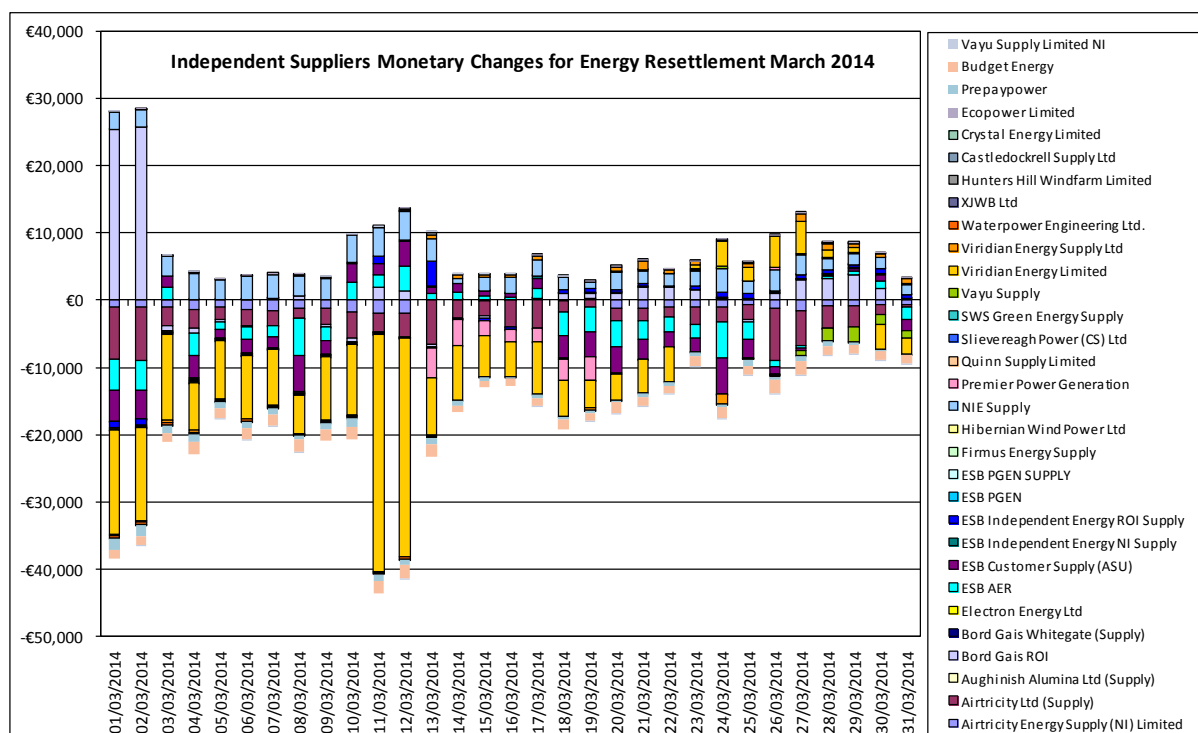


Figure 5 – Independent Suppliers Monetary Changes for Energy Resettlement – March 2014

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

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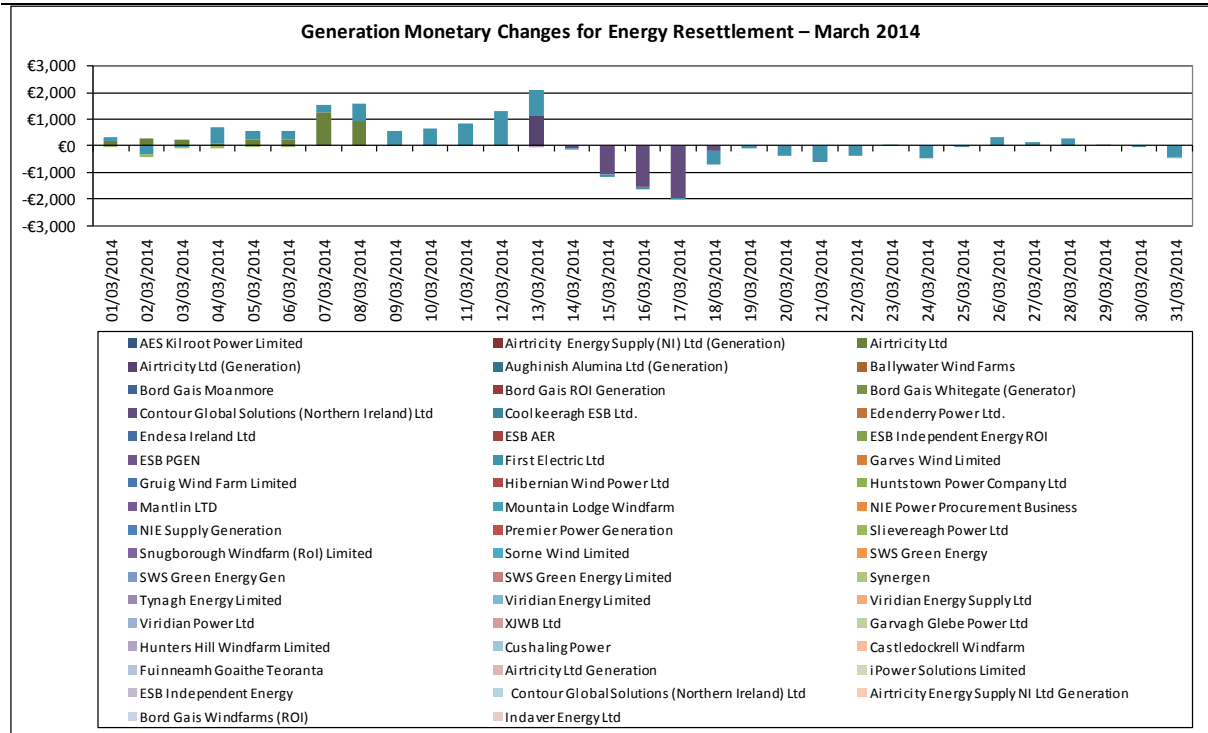


Figure 6 – Generation Monetary Changes for Energy Resettlement – March 2014

Changes noted above are driven by updates to Meter Data.

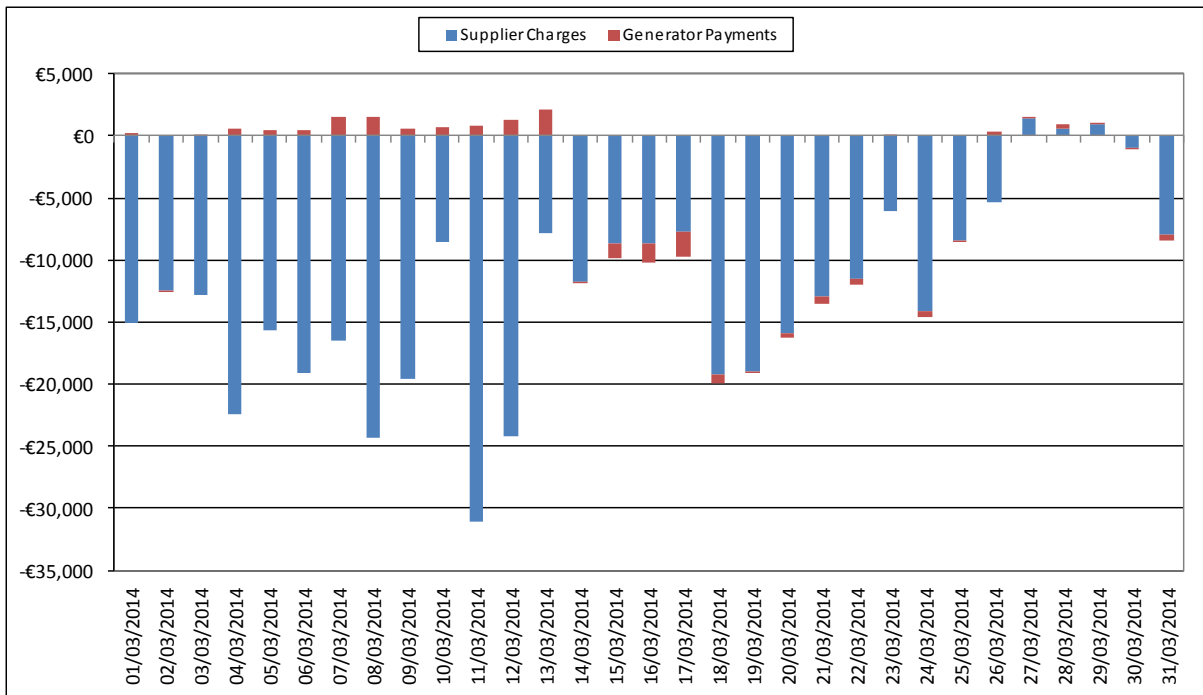


Figure 7 – Total Monetary Changes for Energy Resettlement – March 2014

M+13 Resettlement

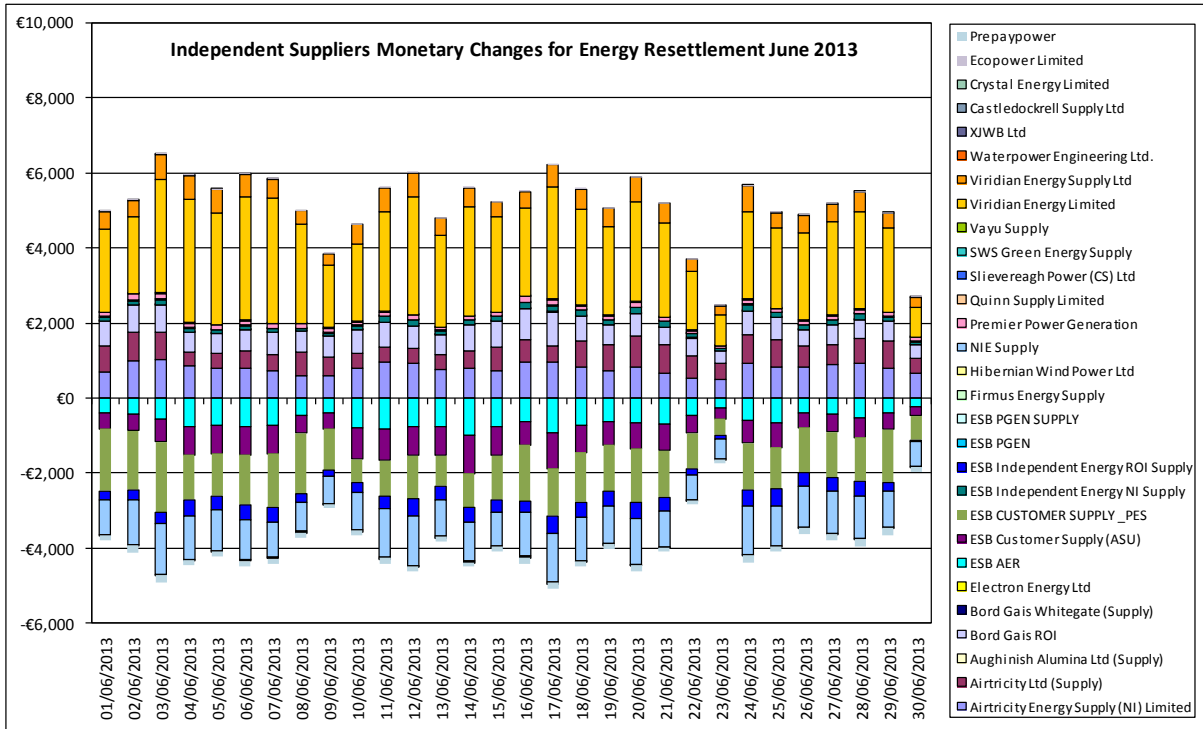


Figure 8 - Independent Suppliers Monetary Changes for Energy Resettlement – June 2013

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

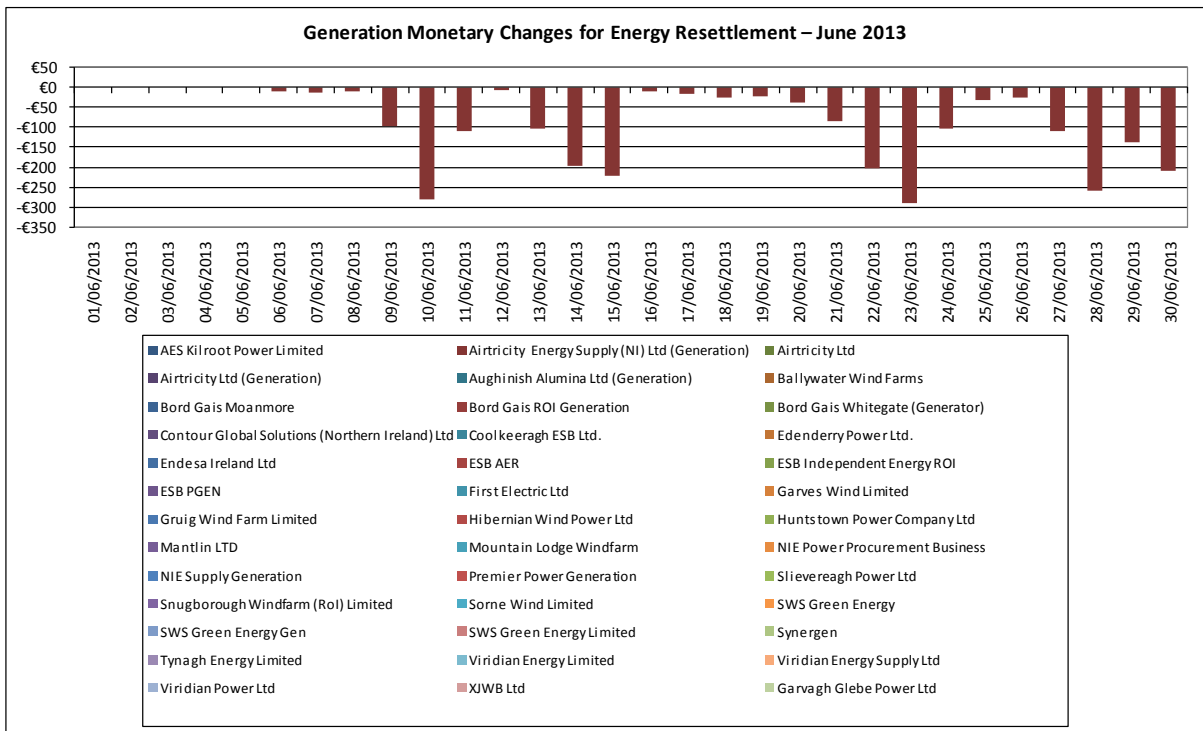


Figure 9 - Generation Monetary Changes for Energy Resettlement – June 2013

Changes noted above are due to updated Meter Data, Loss Factors and Dispatch Quantities.

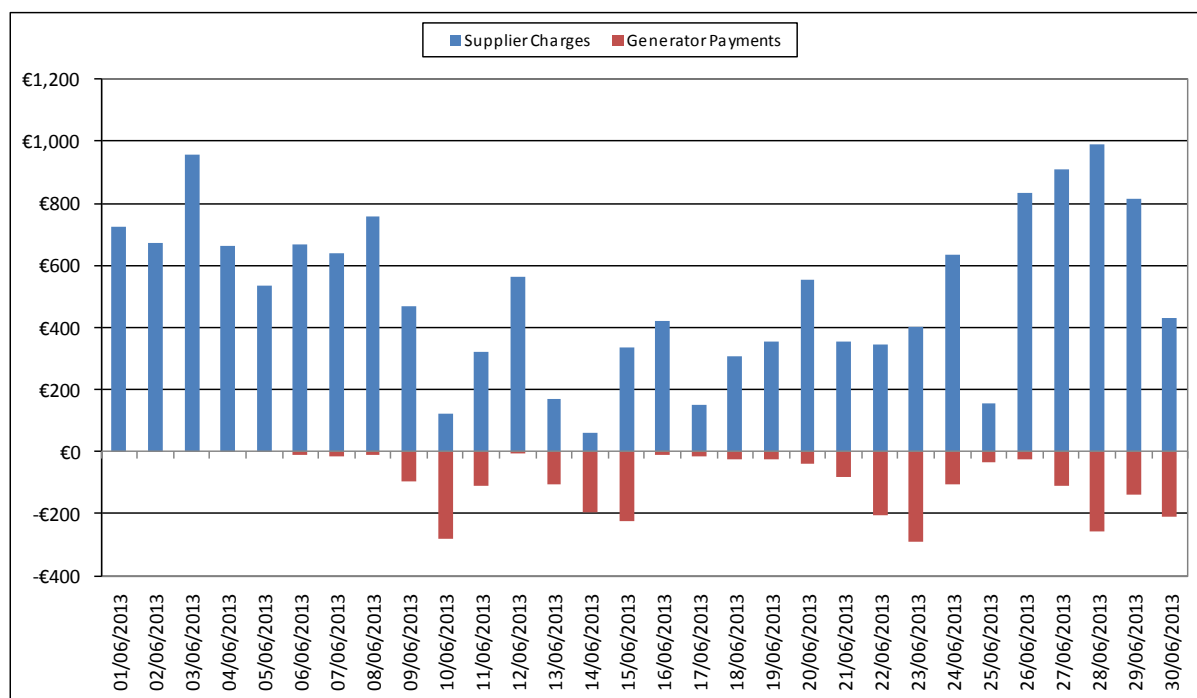


Figure 10 - Total Monetary Changes for Energy Resettlement – June 2013

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.

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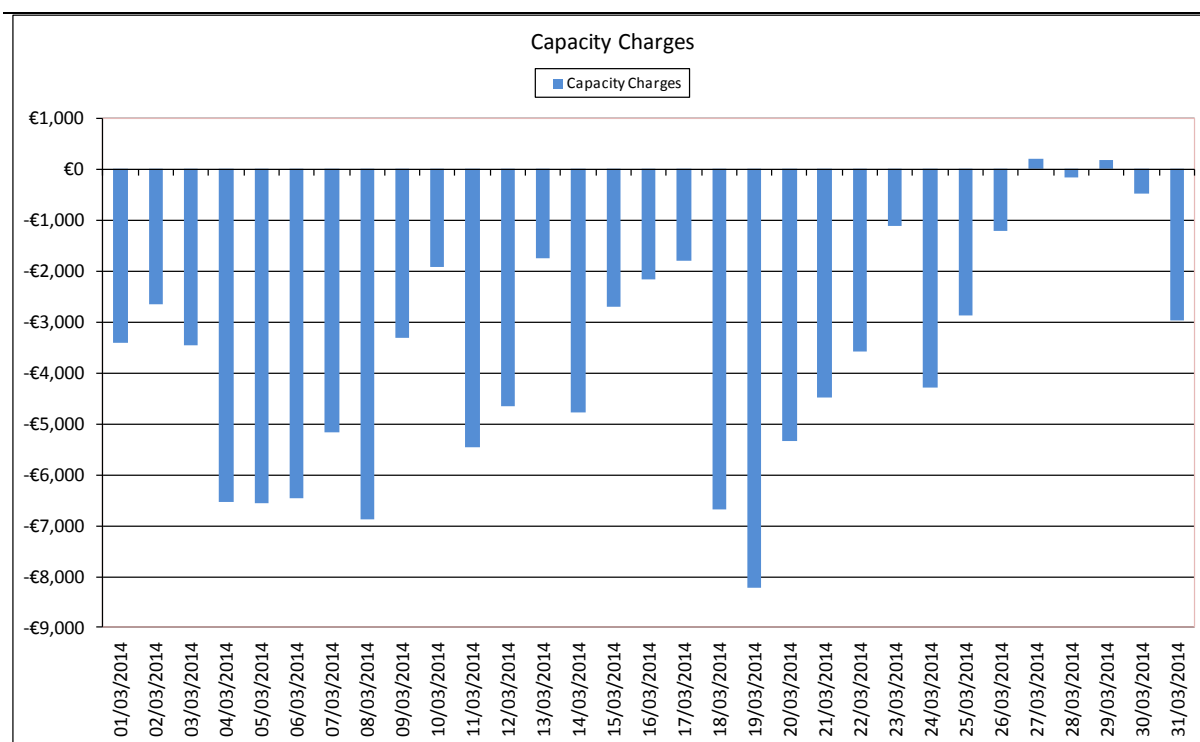


Figure 11 - Independent Suppliers Monetary Changes for Capacity Resettlement – March 2014

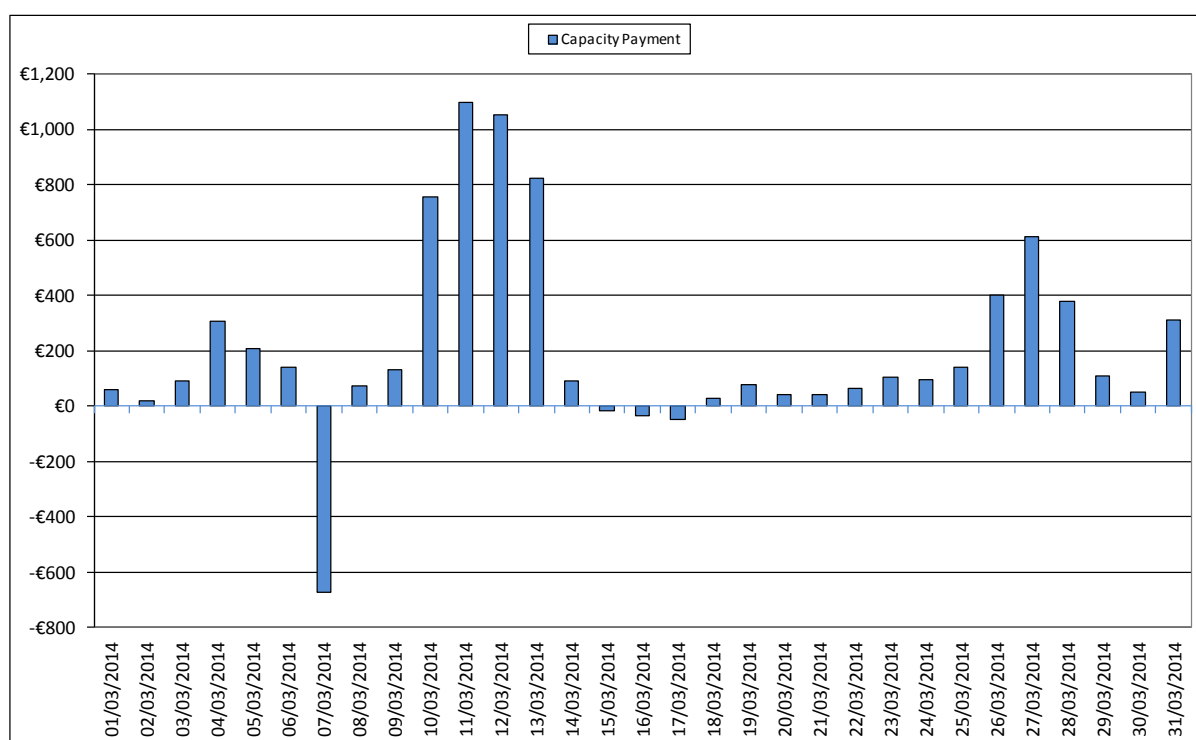


Figure 12 - All Generation Monetary Change for Capacity Resettlement – March 2014

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

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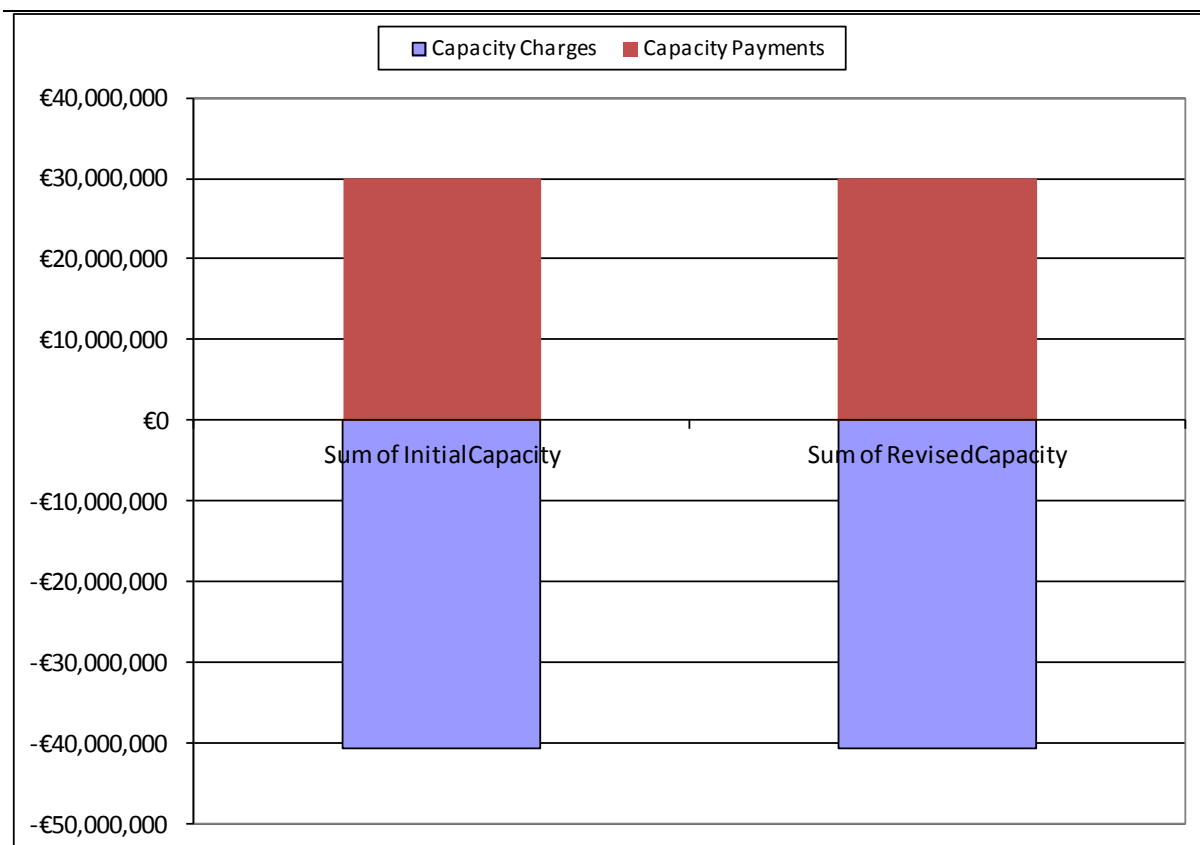


Figure 13 - Comparison of Distribution of Monetary Amounts between Capacity Initial and Resettlement March 2014

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

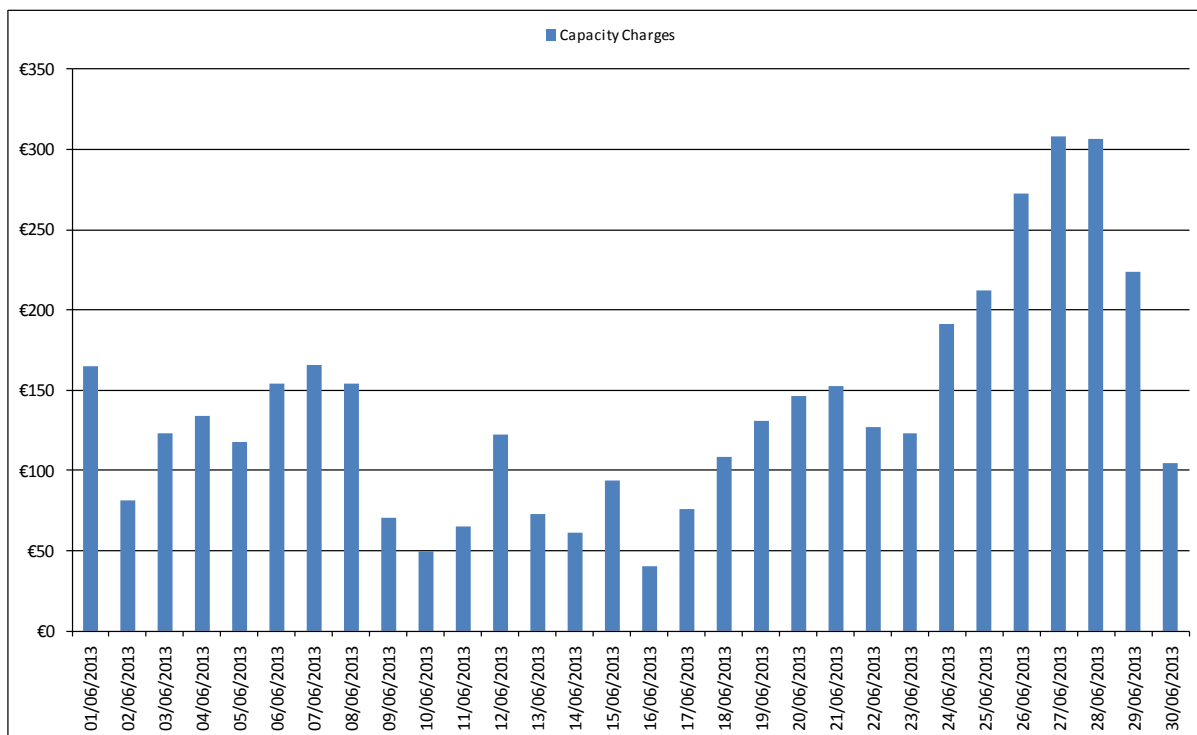


Figure 14 - Independent Suppliers Monetary Changes for Capacity Resettlement – June 2013

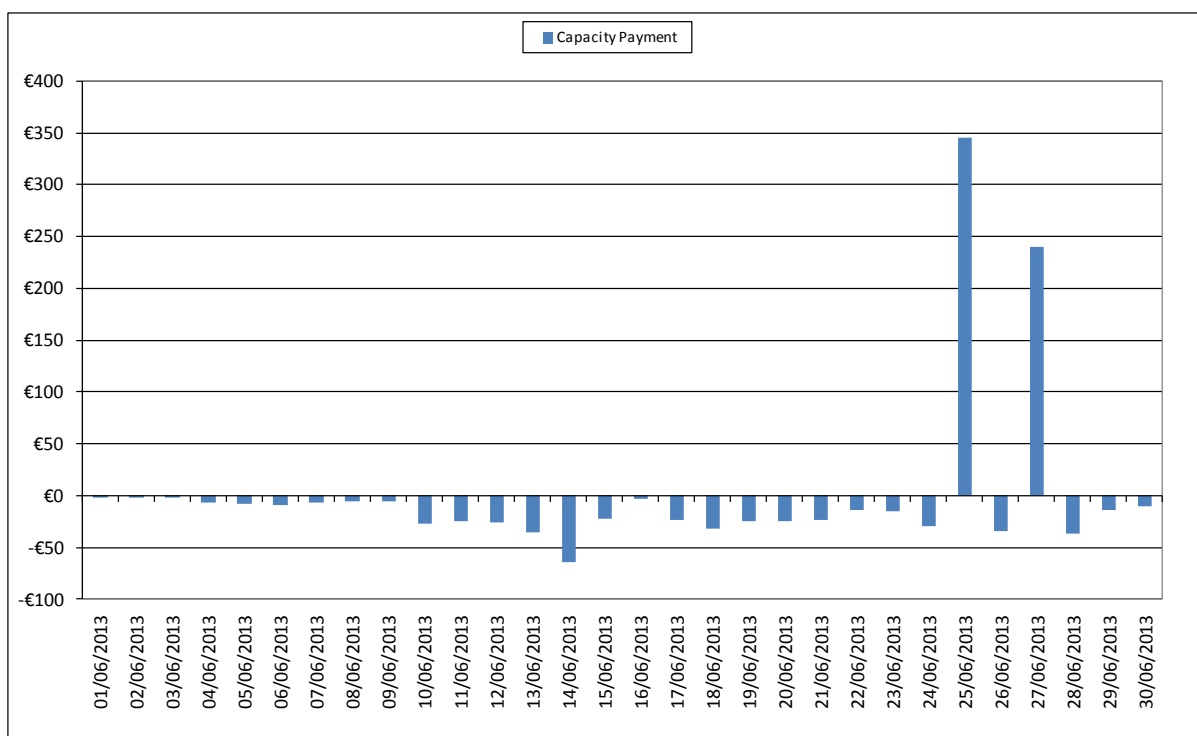


Figure 15 - All Generation Monetary Change for Capacity Resettlement – June 2013

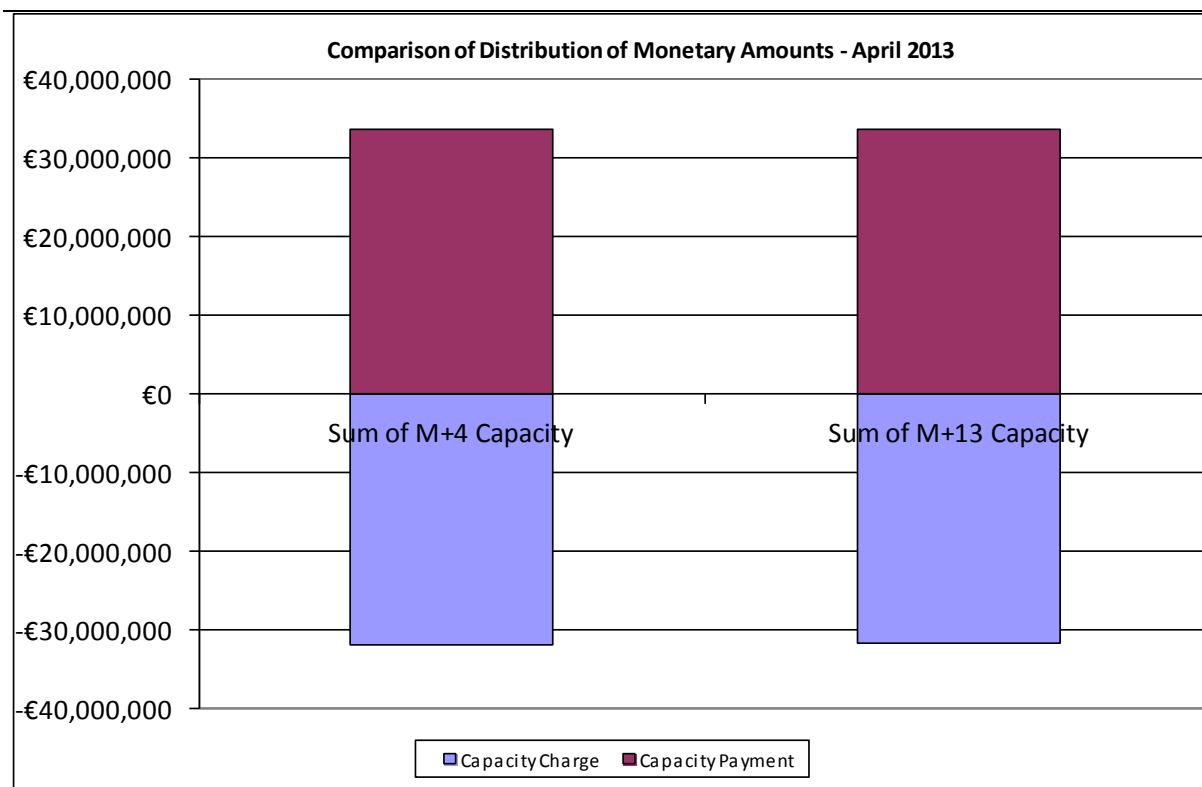


Figure 16 - Comparison of Distribution of Monetary Amounts between M+4 Capacity Resettlement and M+13 Capacity Resettlement – June 2013

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.

4 Helpdesk Call Statistics

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

	Received	Resolved within the period	Not Resolved	Resolved in the period	Resolution Time (Working Days)	Resolved On Time
Normal	160	148	12	173	1.66	158
Important	3	3	0	4	1.83	3
Urgent	1	1	0	5	3.17	0
Settlement	15	10	5	18	4.64	17
Credit	0	0	0	0	0.00	0
Dispute	1	0	1	0	0.00	0
Data	1	1	0	1	1.35	1
Total/Average	181	163	18	201	2.53	179

Table 10 – Helpdesk Statistics

Definitions:

- *Resolved within the Period* refers to queries raised and resolved within the calendar month of July 2014.
- *Resolved in the Period* refers to queries resolved within July 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 July 2014.
- *Not Resolved* refers to queries raised but not resolved within July 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 increased by 0.32 working days in June from 1.34 working days in June to 1.66 working days in July. 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 July 2014 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 July 2014 with regard to formal Settlement Queries.

5 Disputes and Queries

List of Disputes by Topic

As of 19th August there is one outstanding Dispute.

Dispute	Raised	Resolved
F0059635	2014-07-18	-

Table 11 – List of Disputes

List of Queries by Topic

5.1.1 Data Queries

There was one formal data queries raised during the month of July 2014.

Topic	Number Of Queries
Metering	1

Table 12 – Upheld Data queries by topic

- One Data Query in relation to Metered Demand was upheld. Revised meter data was received in time for the initial run for the queried date.

5.1.2 Settlement Queries

There were sixteen Settlement queries raised in July 2014. Of the sixteen, fifteen were upheld and one query was withdrawn. As at 12th August 2014 there are no open queries.

Topic	Number Of Queries
Loss Adjustment Factors	5
Dispatch Instructions	2
Metering	4
Availability	2
So-So trades	2

Table 13 – Upheld Settlement queries by topic

- Five queries relating to Loss Adjustment Factors were upheld. All five queries were deemed to be of Low materiality (<€50,000), and will be corrected during the next scheduled resettlement which is either M+4 or M+13.
- Two queries in relation to Dispatch Instructions were upheld. These were deemed to be of low materiality and will be corrected during the next scheduled resettlement which is M+4.
- Four queries relating to Metering were upheld. All four queries 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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- Two queries in relation to Availabilities were upheld. These were deemed to be of low materiality and will be corrected during the next scheduled resettlement which is M+4.
- Two queries in relation to SO-SO trades were upheld. These were deemed to be of low materiality and will be corrected during the next scheduled resettlement which is M+4.

Unresolved Queries

There are no unresolved Settlement or Data queries as at 12th August 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, 72.46% of data used was submitted by Participants through the normal Bid-Offer process. 27.54% of the data used was based on Standing Commercial Offer Data. 0% 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 July 2014.

There was one Resettlement run carried out in July 2014.

6.1.2 System Errors

There were no defects identified in July 2014 that required resettlement. There were no system defects identified in July 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 July 2014.

6.2.1 MSP Postings July 2014

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)

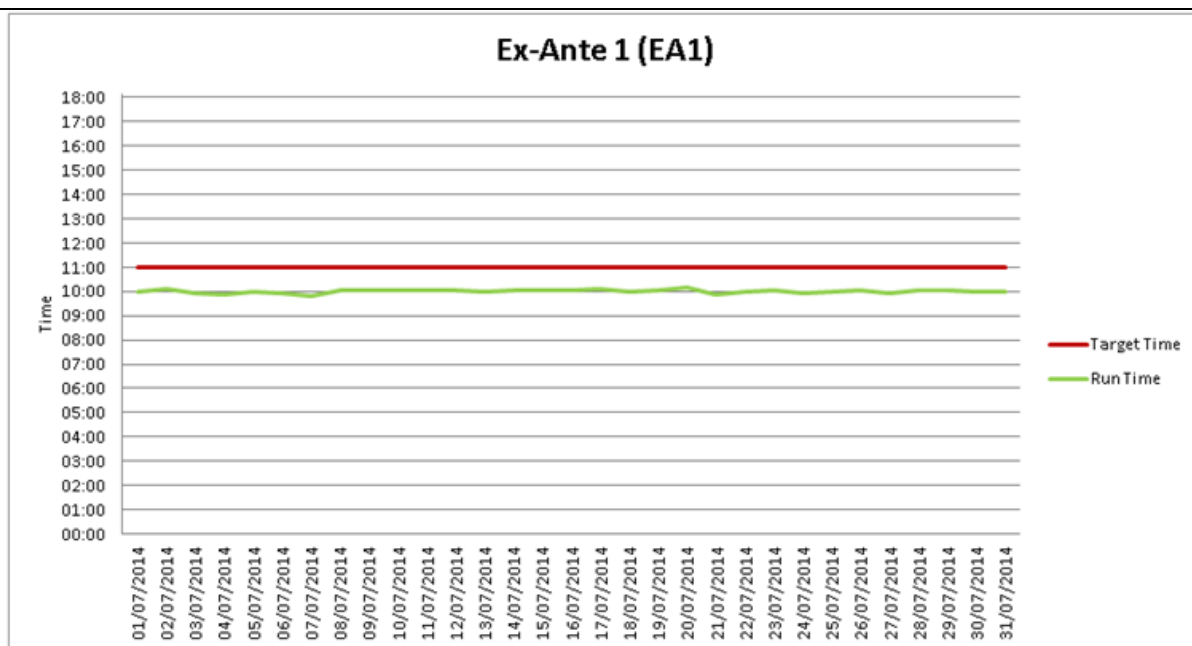


Figure 17 – Ex-Ante 1

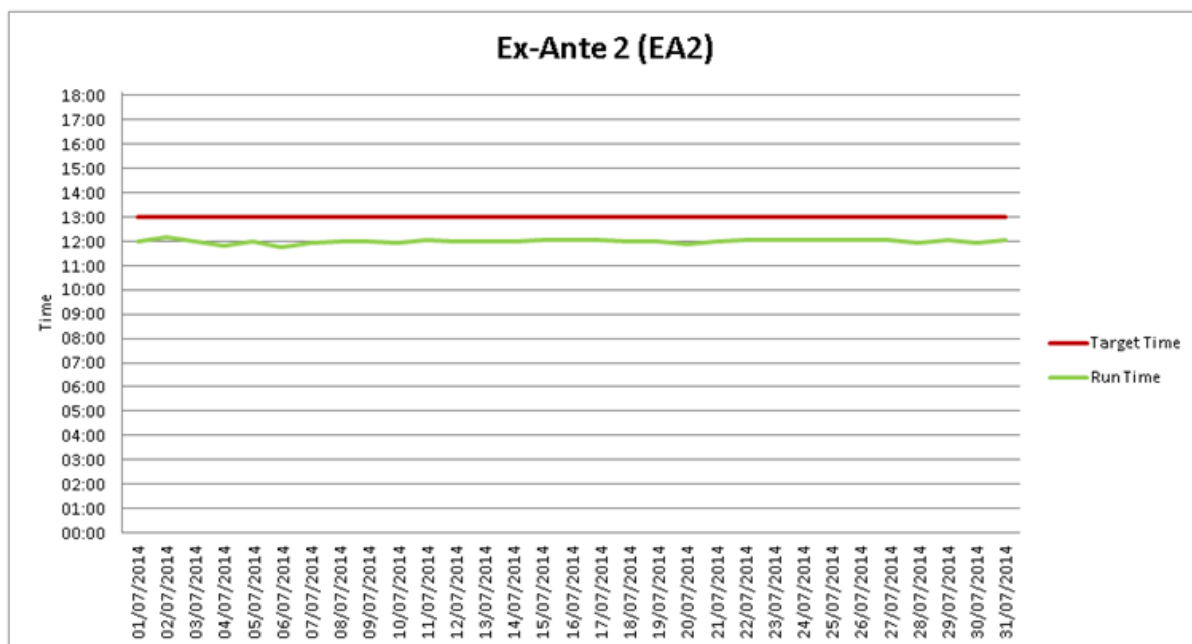


Figure 18 – Ex-Ante 2

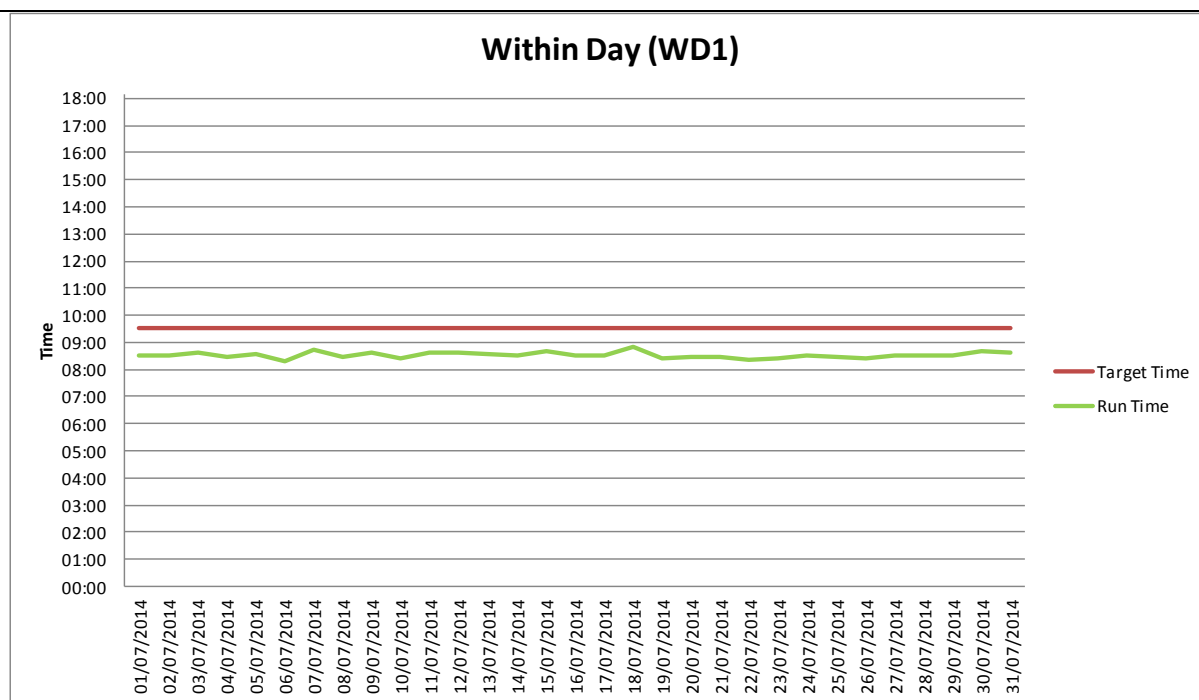


Figure 19 – Within Day 1

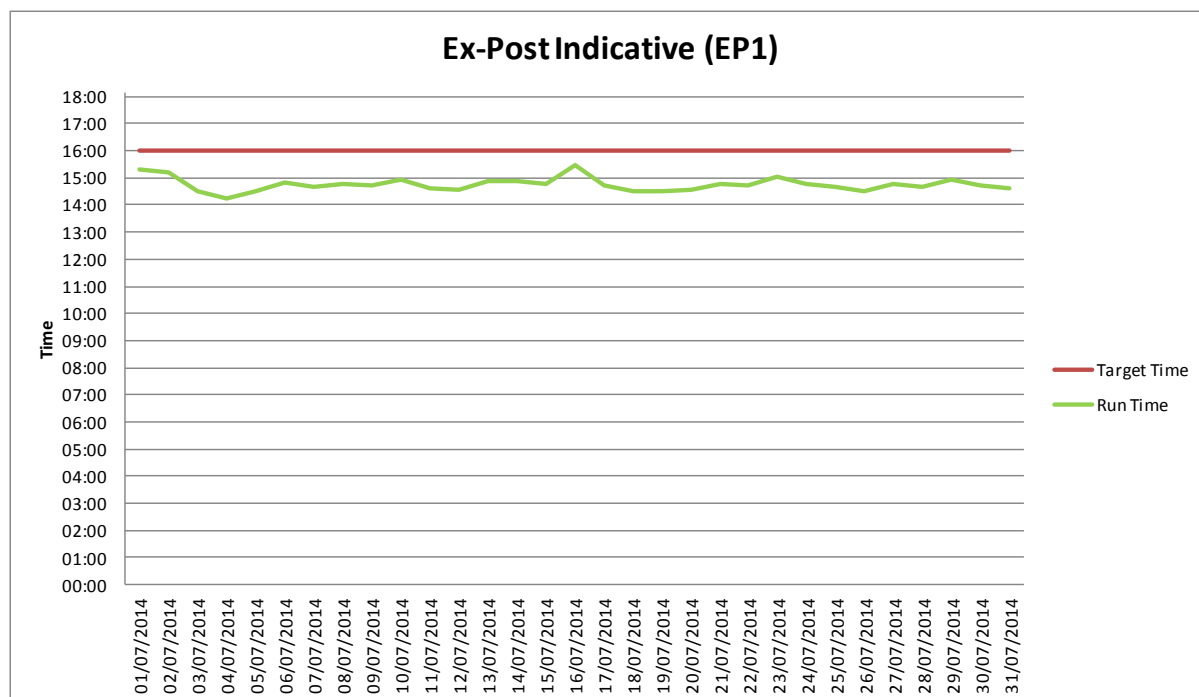


Figure 20 - Ex-Post Indicative

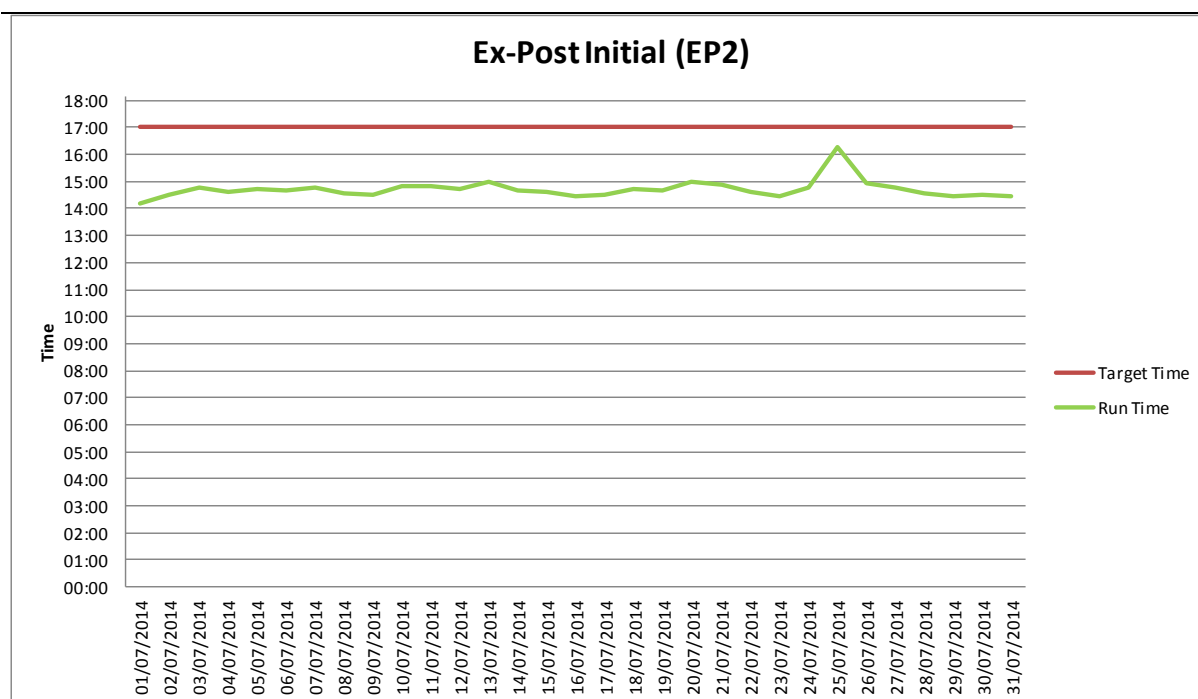


Figure 21 - Ex-Post Initial

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 July 2014, there were three 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](#).

6.2.3 Settlement Postings July 2014

The publication timings for Settlement runs are provided below.

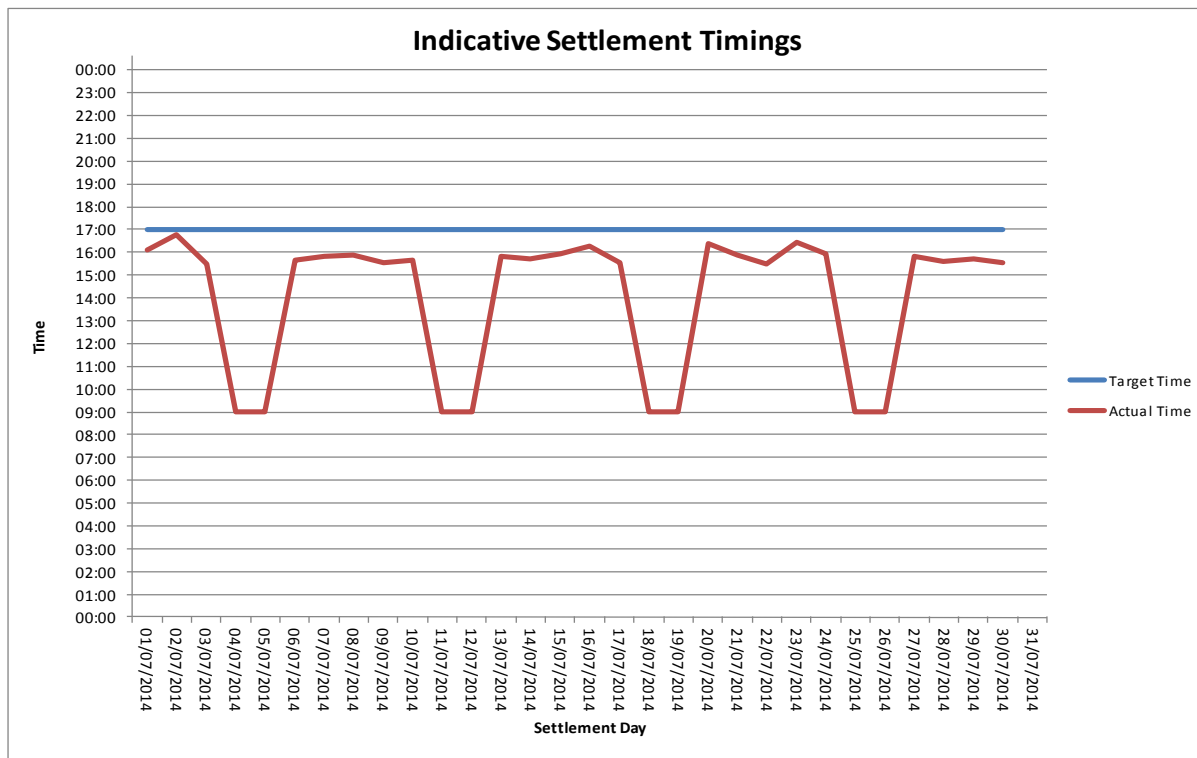


Figure 22 - Indicative Settlement Postings

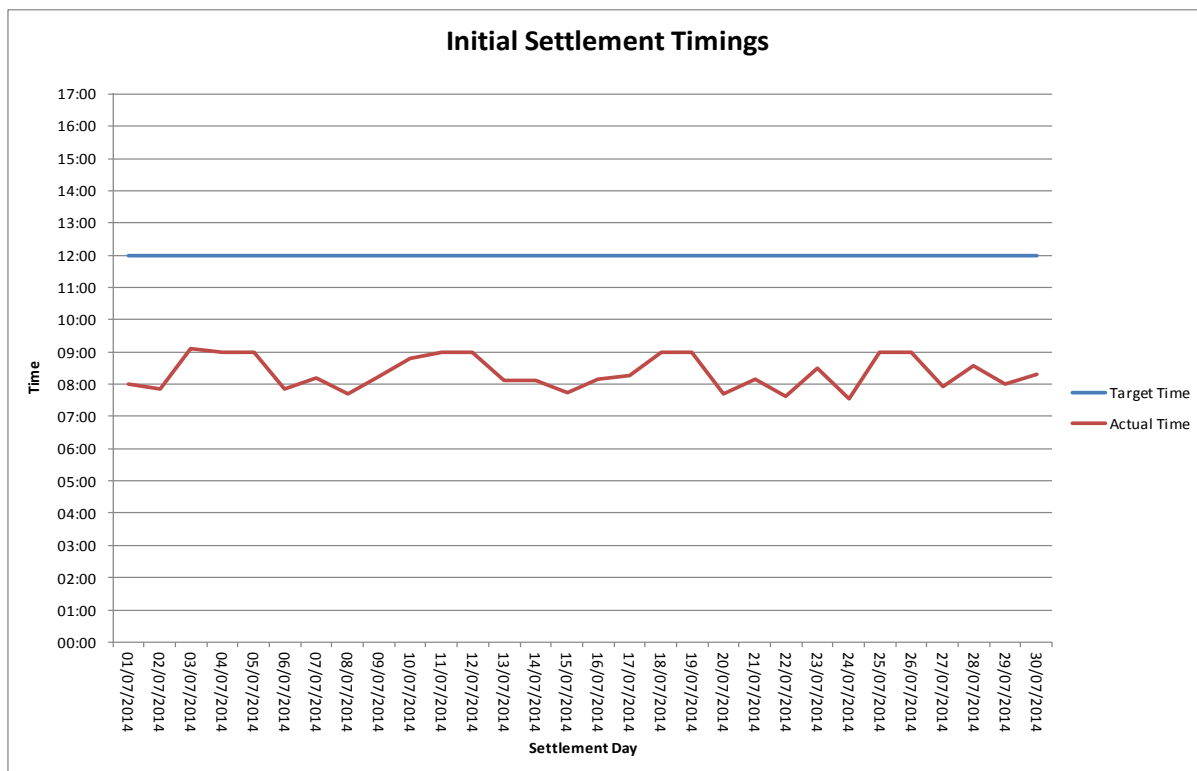


Figure 23 - Initial Settlement Postings

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

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6.5 Market System Releases

6.5.1 Release SEM R2.5.0 (Proposed Deployment: November 2014)

Approval for the proposed scope for this release was received from the Regulatory Authorities on May 1st, 2014. The High Level Impact Assessment (HLIA) was published to the industry on May 7th, 2014.

The approved scope for this release is as follows:

CR Ref.	System	Description
SEM_PC_CR322	STL	Eligible Availability for Energy Limited Units Under Test
SEM_PC_CR327	MI	Event Queuing
SEM_PC_CR333	STL	Functionality to apply PUGDOG, Ttariff on a Trading Day basis
SEM_PC_CR332	STL	Issue Zero Invoices
SEM_PC_CR330	MI	Changes to IART Report
SEM_PC_CR336	STL	HMRC VAT Change

During June we were advised that HMRC are introducing new rules with respect to the application of VAT to supplies of wholesale electricity in the domestic UK market. Consequently, *SEM_PC_CR336 – HMRC VAT Change* was added to vendor scope on July 2nd. A communication in relation to the increased scope was issued via the SEMO Market Helpdesk at the end of June.

The following release related activities were carried out during the month of July:

- The design phase for the release completed on July 4th;
- The Market Participant Update Document (MPUD) was published on July 17th;
- Preparation for System Integration Test commenced; and
- The software was delivered on July 31st.

System Integration Test execution is scheduled to commence on August 5th and conclude on October 10th.

There will be a brief phase of Market Test which is schedule to commence on October 13th and conclude on October 24th.

The software is scheduled for deployment to our Production systems on Friday, November 14th 2014, subject to successful completion of all testing.

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

The release cut-off date for the SEM R2.6.0 release to the Central Market Systems is: **Friday, September 5th, 2014**

7 Occasional Components

7.1 Disaster Recovery/Business Continuity Tests

There was no Business Continuity Tests performed during July 2014.

7.2 Administered Settlement

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

7.3 Communications or Systems Failures

There were a number of Market Interface System issues during July 2014;

SEMO's WAN circuit B lost connection for 6 minutes; a call was logged with Vodafone to investigate. There was no impact to the CMS as WAN circuit A was unaffected.

The IA reported a problem with AMP NTC files for Moyle failing, AMP submission logs were reviewed and discovered that the SONI target FTP server was refusing connections. A call was logged with group infrastructure who confirmed a problem with the SONI FTP server.

Market Operations reported a problem when trying to launch the settlements client. Investigation discovered an issue with a Citrix management server. The problem was addressed and the Settlements application worked as normal.

There was a problem identified with Support Works in that Market Operations could not access the system, an issue was identified with the supportworks server.

A participant reported an issue via Market Operations when trying to download the PUB_AGG_LOAD_FCST. This issue was evident in both type 2 and type 3 communications channels. Issue was identified and passed to the CMS vendor, a fix is due in August for testing and a workaround is currently in place.

Internal only interface DubCitrix stopped accepting logon requests. A problem was identified with one of the Citrix servers. BelCitrix was always available for requests and no external access was impacted.

Market systems IT daily checks discovered that the event MF to DS had not run. A call was opened with the CMS vendor to investigate as the errors pointed to a replication issue. Workaround currently in place with a permanent fix been deployed as part of the August maintenance CMS outage.

7.4 Denial of Service Attacks

There was no Denial of Service Attacks during July 2014.

7.5 Submission of Parameters to RAs for Approval

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

8 Appendix A: Detail of Code Breaches

Market Participant

02/07/2014	Money In	Timing	Participant	Payment Default	Ecopower Supply Ltd PT_400068 had a shortfall of 0.01 on a February 2014, M+4 Capacity invoice.	Participant error	A default notice was issued to the participant.	Major
23/07/2014	Money In	Timing	Participant	Payment Default	Crystal Energy Supply Limited PT_400081 defaulted on a Week 27 2014 Initial Energy invoice.	Participant error.	A default notice was issued to the participant.	Major
30/07/2014	Money In	Timing	Participant	Payment Default	Bearna Gaoithe Power Supply PT_400073 defaulted on a March 2014 M+4 Capacity invoice.	Participant error	A default notice was issued to the participant.	Major

Table 16 - Code Breaches – Market Participants

Data Provider

There were no issues to report in July 2014

SEMO - Pricing and Scheduling

There were no issues to report in July 2014

SEMO – Settlements

There were no issues to report in July 2014

SEMO - Funds Transfer

There were no issues to report in July 2014

SEMO - Credit Management

There were no issues to report in July 2014

SEMO – Other

There were no issues to report in July 2014

9 Appendix B: List of Queries by Type

Data Queries

Summary Title	Description	ID	Logged On	Date sent to MP
Metered Demand	Incorrect demand meter data was sent to the SEM on D+3 for SU_400139 (Aghada Unit 1). The "MEASURED_QUANTITY" for the half hour period ending 14:59 on the 10/07/2014 should have been "-0.847", as per the table below ;START_TIME END_TIME MEASURED_QUANTITY2014-07-10T14:30:00+01:00 2014-07-10T14:59:00+01:00 -0.4222014-07-10T14:30:00+01:00 2014-07-10T14:59:00+01:00 -0.847	Eirgrid	2014-07-14	2014-07-15

Table 17 - Data Queries

Settlement Queries

Summary Title	Description	ID	Logged On	Date sent to MP
Availability	Incorrect Availability Declarations were sent to the SEM for GU_400540 (Huntstown Unit 2) for the 29/05/2014.	Eirgrid	2014-07-14	2014-08-08
Availability	Following receipt of SSE Airtricity Ltd PT_400021 Initial capacity invoice for May 2014, it reported the Capacity Payments and Capacity Availability for unit GU_400021 are different from expected. GU_400021 was on an outage in May 2014, we in turn submitted daily outturn availability data for the 1st-2nd of May to availabilityprofiles@eirgrid.com. Consequently for the 1st and 2nd of May 2014 we would have been expecting total capacity availability to the value of 112.7 MW(1st-23.4MW and 2nd - 89.3MW). Monetary impact is around 550e. Our query therefore related to this deviation from our submitted declared availability and expected capacity revenue for the 1st and 2nd of May 2014.	PT_400021	2014-07-09	2014-08-08
Dispatch Instructions	Incorrect Dispatch Instructions were sent to the SEM for GU_400540 (Huntstown Unit 2) on the 29/05/2014.	Eirgrid	2014-07-14	2014-07-17
Dispatch Instructions	KGT4 GU_500821 sync time submitted to SEMO with a time of 10:01 for Settlement Day 25/07/2014 however this should have been entered as let us know when to correct and re-submit EDIL Dispatch Instructions.	SONI	2014-07-30	2014-08-12
Loss Adjustment Factors	A revised TLAF file was received from SONI on the 18th July 2014. Upon inspection by the settlement team, GU_501040 TLAFS were incorrect for 31/03/2014. The file received on the 18/07/2014 included the correct TLAFS for this unit. The 31/03/2014 is to be settled & published by the SE team by 17:00 on the 21/07/2014	SONI	2014-07-21	2014-07-21
Loss Adjustment Factors	Initial NDA values for PT_500028 and PT_500036 are unusually large causing positive SNDLF and therefore positive energy and VMO charges for these suppliers	PT_500028 / PT_500036	2014-07-22	2014-07-22

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Loss Adjustment Factors	Loss adjustment factors were submitted incorrectly for initial settlement for Hunters Hill, Unit ID GU_501040 for Settlement Day's 01/03/2014 to 30/09/2014. Please see attached the corrected CLAFs for these dates.	TSO_SONI	2014-07-23	2014-07-29
Loss Adjustment Factors	Loss adjustment factors were submitted incorrectly for initial settlement for Contour Global AGU, Unit ID GU_500904 for Settlement Day's 01/03/2014 to 30/09/2014. Please see attached the corrected CLAFs for these dates.	TSO_SONI	2014-07-23	2014-07-29
Loss Adjustment Factors	Loss adjustment factors were submitted incorrectly for initial settlement for Moyle Interconnector, Unit ID IA_NIMOYLE for Settlement Day's 01/07/2014 to 31/07/2014. Please see attached the corrected CLAFs for these dates.	IA_NIMOYLE	2014-07-24	2014-08-06
Meter Generation	The meters were uncontactable for GU_400630 (Knockawarriga Windfarm Phase 1) and GU_400600 (Tournafulla Windfarm Phase 2), this resulted in SCADA being sent to the SEM for all day (00:00-23:59) on the 27/06/2014. Meter data is now available.	Eirgrid	2014-07-14	2014-07-15
Meter Generation	The meters were uncontactable for GU_401540 (Monaincha Windfarm Phase 1), this resulted in SCADA being sent to the SEM for all day (00:00-23:59) on the 09/07/2014.	PT_400066	2014-07-29	2014-08-05
Metered Generation	The meters were uncontactable for GU_401090 Grouse Lodge Windfarm Phase 1); this resulted in SCADA being sent to the SEM for all day (00:00-23:59) on the 26/05/14. Meter data is now available.	Eirgrid	2014-07-04	2014-07-07
SO-SO Trade	Incorrect costs provided to SEMO for a MOYLE SO Trade for 25.06.2014 Trade costs which were submitted to SEMO at D+3 were incorrect. The amended costs per trade date are included with this query.	IA_NIMOYLE	2014-07-21	2014-07-24
SO-SO Trade	Incorrect costs provided to SEMO for an EWIC SO Trade for 25.06.2014. Trade costs which were submitted to SEMO at D+3 were incorrect. The amended costs per trade date are included with this query.	IA_ROIEWIC	2014-07-21	2014-07-24

Table 18 - 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 July 2014 that required repricing or resettlement	-	-	-	-	-

Table 19 - 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
01/07/2014	11:00	09:58:00	13:00	09:58	09:30	08:32	16:00	15:17	17:00	14:11
02/07/2014	11:00	10:05:00	13:00	10:05	09:30	08:30	16:00	15:11	17:00	14:30
03/07/2014	11:00	09:55:00	13:00	09:55	09:30	08:36	16:00	14:32	17:00	14:47
04/07/2014	11:00	09:51:00	13:00	09:51	09:30	08:28	16:00	14:14	17:00	14:38
05/07/2014	11:00	10:00:00	13:00	10:00	09:30	08:34	16:00	14:32	17:00	14:43
06/07/2014	11:00	09:57:00	13:00	09:57	09:30	08:19	16:00	14:50	17:00	14:39
07/07/2014	11:00	09:49:00	13:00	09:49	09:30	08:45	16:00	14:41	17:00	14:45
08/07/2014	11:00	10:02:00	13:00	10:02	09:30	08:29	16:00	14:45	17:00	14:33
09/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:36	16:00	14:42	17:00	14:31
10/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:26	16:00	14:55	17:00	14:51
11/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:36	16:00	14:36	17:00	14:50
12/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:37	16:00	14:34	17:00	14:44
13/07/2014	11:00	10:01:00	13:00	10:01	09:30	08:33	16:00	14:54	17:00	14:59
14/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:30	16:00	14:53	17:00	14:39
15/07/2014	11:00	10:04:00	13:00	10:04	09:30	08:40	16:00	14:45	17:00	14:36
16/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:31	16:00	15:27	17:00	14:28
17/07/2014	11:00	10:05:00	13:00	10:05	09:30	08:32	16:00	14:42	17:00	14:30
18/07/2014	11:00	10:00:00	13:00	10:00	09:30	08:51	16:00	14:32	17:00	14:43
19/07/2014	11:00	10:02:00	13:00	10:02	09:30	08:23	16:00	14:30	17:00	14:41
20/07/2014	11:00	10:10:00	13:00	10:10	09:30	08:29	16:00	14:34	17:00	14:58
21/07/2014	11:00	09:53:00	13:00	09:53	09:30	08:29	16:00	14:46	17:00	14:53
22/07/2014	11:00	10:00:00	13:00	10:00	09:30	08:22	16:00	14:42	17:00	14:36
23/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:23	16:00	15:02	17:00	14:28
24/07/2014	11:00	09:56:00	13:00	09:56	09:30	08:32	16:00	14:47	17:00	14:45
25/07/2014	11:00	10:00:00	13:00	10:00	09:30	08:29	16:00	14:40	17:00	16:15
26/07/2014	11:00	10:02:00	13:00	10:02	09:30	08:26	16:00	14:31	17:00	14:55
27/07/2014	11:00	09:56:00	13:00	09:56	09:30	08:31	16:00	14:47	17:00	14:47
28/07/2014	11:00	10:03:00	13:00	10:03	09:30	08:31	16:00	14:40	17:00	14:33
29/07/2014	11:00	10:02:00	13:00	10:02	09:30	08:31	16:00	14:56	17:00	14:26
30/07/2014	11:00	09:58:00	13:00	09:58	09:30	08:39	16:00	14:43	17:00	14:31
31/07/2014	11:00	10:01:00	13:00	10:01	09:30	08:38	16:00	14:36	17:00	14:27

Table 20 – 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
01/07/2014	02/07/2014	02/07/2014	17:00	16:07	01/07/2014	08/07/2014	12:00	07:59
02/07/2014	03/07/2014	03/07/2014	17:00	16:46	02/07/2014	09/07/2014	12:00	07:52
03/07/2014	04/07/2014	04/07/2014	17:00	15:30	03/07/2014	10/07/2014	12:00	09:06
04/07/2014	07/07/2014	07/07/2014	17:00	09:00	04/07/2014	11/07/2014	12:00	09:00
05/07/2014	07/07/2014	07/07/2014	17:00	09:00	05/07/2014	11/07/2014	12:00	09:00
06/07/2014	07/07/2014	07/07/2014	17:00	15:39	06/07/2014	11/07/2014	12:00	07:50
07/07/2014	08/07/2014	08/07/2014	17:00	15:48	07/07/2014	14/07/2014	12:00	08:12
08/07/2014	09/07/2014	09/07/2014	17:00	15:52	08/07/2014	15/07/2014	12:00	07:42
09/07/2014	10/07/2014	10/07/2014	17:00	15:32	09/07/2014	16/07/2014	12:00	08:14
10/07/2014	11/07/2014	11/07/2014	17:00	15:40	10/07/2014	17/07/2014	12:00	08:48
11/07/2014	14/07/2014	14/07/2014	17:00	09:00	11/07/2014	18/07/2014	12:00	09:00
12/07/2014	14/07/2014	14/07/2014	17:00	09:00	12/07/2014	18/07/2014	12:00	09:00
13/07/2014	14/07/2014	14/07/2014	17:00	15:49	13/07/2014	18/07/2014	12:00	08:06
14/07/2014	15/07/2014	15/07/2014	17:00	15:43	14/07/2014	21/07/2014	12:00	08:06
15/07/2014	16/07/2014	16/07/2014	17:00	15:56	15/07/2014	22/07/2014	12:00	14:36
16/07/2014	17/07/2014	17/07/2014	17:00	16:17	16/07/2014	23/07/2014	12:00	08:09
17/07/2014	18/07/2014	18/07/2014	17:00	15:33	17/07/2014	24/07/2014	12:00	08:17
18/07/2014	21/07/2014	21/07/2014	17:00	09:00	18/07/2014	25/07/2014	12:00	09:00
19/07/2014	21/07/2014	21/07/2014	17:00	09:00	19/07/2014	25/07/2014	12:00	09:00
20/07/2014	21/07/2014	21/07/2014	17:00	16:22	20/07/2014	25/07/2014	12:00	07:42
21/07/2014	22/07/2014	22/07/2014	17:00	15:54	21/07/2014	28/07/2014	12:00	08:09
22/07/2014	23/07/2014	23/07/2014	17:00	15:28	22/07/2014	29/07/2014	12:00	07:38
23/07/2014	24/07/2014	24/07/2014	17:00	16:26	23/07/2014	30/07/2014	12:00	08:29
24/07/2014	25/07/2014	25/07/2014	17:00	15:55	24/07/2014	31/07/2014	12:00	07:32
25/07/2014	28/07/2014	28/07/2014	17:00	09:00	25/07/2014	01/08/2014	12:00	09:00
26/07/2014	28/07/2014	28/07/2014	17:00	09:00	26/07/2014	01/08/2014	12:00	09:00
27/07/2014	28/07/2014	28/07/2014	17:00	15:48	27/07/2014	01/08/2014	12:00	07:55
28/07/2014	29/07/2014	29/07/2014	17:00	15:37	28/07/2014	04/08/2014	12:00	08:35
29/07/2014	30/07/2014	30/07/2014	17:00	15:43	29/07/2014	05/08/2014	12:00	08:01
30/07/2014	31/07/2014	31/07/2014	17:00	15:32	30/07/2014	06/08/2014	12:00	08:19
31/07/2014	01/08/2014	01/08/2014	17:00	15:37	31/07/2014	07/08/2014	12:00	08:01

Table 21 - 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

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06/02/2014	€570,059.13	-€14,226.00	-€454,172.29
07/02/2014	€733,072.53	-€5,600.31	-€442,576.92
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

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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
01/04/2014	€493,506.80	-€62,047.30	-€420,270.95
02/04/2014	€390,689.63	€1,285.10	-€416,199.09
03/04/2014	€805,100.52	-€7,736.37	-€419,384.63
04/04/2014	€480,942.40	-€9,391.04	-€410,276.35
05/04/2014	€437,083.55	€30.09	-€365,827.83
06/04/2014	€361,422.25	-€11,522.38	-€330,325.19
07/04/2014	€548,948.94	-€31,726.93	-€399,979.51
08/04/2014	€424,359.83	-€13,685.38	-€398,299.01
09/04/2014	€549,232.01	-€5,003.33	-€401,907.82
10/04/2014	€419,557.15	-€21,387.03	-€413,392.52
11/04/2014	€464,961.09	-€16,069.99	-€403,394.20
12/04/2014	€538,279.15	-€1,971.04	-€349,655.90
13/04/2014	€429,660.02	€4,249.05	-€337,368.15
14/04/2014	€173,425.17	-€19,212.43	-€398,627.50
15/04/2014	€409,386.74	-€5,372.55	-€388,585.54
16/04/2014	€387,544.85	-€8,738.90	-€391,905.20
17/04/2014	€353,527.14	-€21,038.69	-€393,877.38
18/04/2014	€406,743.60	-€11,653.05	-€383,249.86
19/04/2014	€326,411.09	€1,994.99	-€351,174.26
20/04/2014	€542,284.63	-€4,968.48	-€321,329.94
21/04/2014	€612,266.82	€2,530.54	-€311,006.56
22/04/2014	€507,354.80	-€13,928.47	-€373,861.21
23/04/2014	€468,135.27	-€29,267.76	-€380,271.71
24/04/2014	€406,217.05	-€12,686.25	-€386,511.77
25/04/2014	€522,164.29	€890.22	-€371,853.20
26/04/2014	€316,953.67	€8,739.69	-€338,460.42
27/04/2014	€434,994.12	-€842.19	-€338,502.78
28/04/2014	€471,489.47	-€34,016.83	-€395,652.40
29/04/2014	€367,047.29	-€4,206.25	-€395,371.12
30/04/2014	€366,195.91	-€27,414.20	-€393,628.42
01/05/2014	€246,053.16	-€19,877.85	-€403,408.92
02/05/2014	€164,891.37	-€16,241.91	-€394,309.86
03/05/2014	€313,454.83	-€6,018.51	-€355,317.37
04/05/2014	€430,617.78	€1,155.53	-€327,028.46
05/05/2014	€347,517.05	-€10,044.89	-€326,831.33
06/05/2014	€487,998.49	-€8,440.55	-€373,854.74
07/05/2014	€397,934.98	€2,071.56	-€379,285.51
08/05/2014	€592,137.89	€9,579.27	-€392,179.12
09/05/2014	€298,375.07	-€6,659.56	-€374,231.73
10/05/2014	€309,315.85	€11,549.56	-€342,295.24
11/05/2014	€349,749.11	-€5,463.16	-€325,086.80
12/05/2014	€166,271.11	-€239.14	-€385,574.87
13/05/2014	€279,317.38	-€5,163.93	-€392,422.70
14/05/2014	€237,720.41	-€23,285.90	-€403,609.34
15/05/2014	€222,011.67	-€24,282.91	-€398,967.77
16/05/2014	€233,415.69	-€3,024.00	-€377,298.82

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17/05/2014	€308,186.07	-€6,138.88	-€332,321.56
18/05/2014	€234,907.17	€1,363.53	-€333,272.56
19/05/2014	€192,322.12	-€20,970.09	-€388,734.22
20/05/2014	€234,992.31	-€9,746.08	-€399,176.24
21/05/2014	€173,709.13	-€13,617.56	-€389,481.89
22/05/2014	€214,372.91	-€5,978.99	-€381,807.55
23/05/2014	€429,485.31	€104.55	-€368,448.27
24/05/2014	€120,386.81	€3,517.61	-€340,924.69
25/05/2014	€431,999.65	-€7,602.62	-€338,246.61
26/05/2014	€176,577.63	-€25,612.19	-€392,322.04
27/05/2014	€308,483.53	-€15,136.56	-€392,314.32
28/05/2014	€352,011.89	-€13,476.82	-€391,502.13
29/05/2014	€99,509.99	€11,099.11	-€395,064.51
30/05/2014	€255,905.57	€89.21	-€386,852.62
31/05/2014	€379,068.63	€152.04	-€343,634.28
01/06/2014	€261,003.12	€571.99	-€318,603.87
02/06/2014	€165,838.14	-€15,541.65	-€344,586.55
03/06/2014	€331,556.56	-€56,629.79	-€378,964.60
04/06/2014	€429,071.88	-€4,314.04	-€379,297.07
05/06/2014	€358,997.74	-€5,038.60	-€383,585.81
06/06/2014	€487,730.63	€2,802.43	-€360,546.63
07/06/2014	€220,520.47	-€751.79	-€336,252.03
08/06/2014	€361,149.72	€16,474.04	-€315,278.89
09/06/2014	€315,698.15	-€9,318.41	-€370,824.11
10/06/2014	€251,984.32	-€8,421.60	-€386,114.43
11/06/2014	€310,158.70	-€29,461.16	-€389,098.29
12/06/2014	€226,996.18	-€9,451.22	-€385,744.09
13/06/2014	€171,777.03	€2,805.23	-€389,471.04
14/06/2014	€188,321.32	-€5,152.64	-€349,441.32
15/06/2014	€149,192.87	-€2,456.74	-€324,494.04
16/06/2014	€256,838.15	-€3,466.28	-€370,984.94
17/06/2014	€189,683.98	-€661.51	-€388,732.17
18/06/2014	€548,711.45	€3,978.34	-€391,485.74
19/06/2014	€477,957.50	-€1,625.21	-€378,462.71
20/06/2014	€171,599.50	-€8,288.37	-€373,735.56
21/06/2014	€212,960.89	€2,244.01	-€335,411.92
22/06/2014	€344,462.96	-€1,044.99	-€323,495.35
23/06/2014	€214,222.79	-€4,890.90	-€376,348.18
24/06/2014	€323,543.08	-€13,536.72	-€389,182.42
25/06/2014	€312,334.26	-€3,592.78	-€393,119.37
26/06/2014	€357,703.94	-€71.89	-€380,628.72
27/06/2014	€259,711.86	-€1,302.11	-€374,028.78
28/06/2014	€223,536.38	€3,657.05	-€337,593.94
29/06/2014	€291,603.87	-€30,266.41	-€321,113.40
30/06/2014	€315,767.89	-€12,389.49	-€365,692.35
01/07/2014	€341,754.52	€4,505.16	-€380,516.77
02/07/2014	€230,371.72	€3,066.03	-€368,999.36
03/07/2014	€320,576.73	-€8,129.69	-€372,575.19
04/07/2014	€305,992.28	€22,482.93	-€366,743.08
05/07/2014	€230,663.65	€4,480.07	-€331,817.59

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06/07/2014	€157,028.98	€3,082.29	-€311,006.38
07/07/2014	€349,983.04	-€19,684.18	-€367,069.24
08/07/2014	€648,535.51	-€9,533.23	-€366,319.74
09/07/2014	€480,400.86	€1,653.14	-€376,128.54
10/07/2014	€372,278.39	-€15,065.54	-€382,651.68
11/07/2014	€344,824.34	-€4,120.89	-€376,325.49
12/07/2014	€136,771.90	-€3,431.31	-€327,580.04
13/07/2014	€201,133.37	€6,137.62	-€307,581.16
14/07/2014	€153,757.97	€7,705.05	-€339,646.20
15/07/2014	€369,139.11	-€15,673.85	-€361,070.34
16/07/2014	€168,610.28	€3,847.17	-€361,468.94
17/07/2014	€209,677.62	-€8,375.49	-€376,557.76
18/07/2014	€300,548.99	-€23,516.12	-€366,989.74
19/07/2014	€83,088.47	-€3,674.51	-€345,018.63
20/07/2014	€447,093.33	-€17,991.86	-€323,054.54
21/07/2014	€322,037.33	-€12,039.17	-€372,830.00
22/07/2014	€83,770.61	€3,681.89	-€387,118.40
23/07/2014	€204,584.49	-€1,931.74	-€386,845.54
24/07/2014	€237,529.82	€4,124.77	-€387,470.89
25/07/2014	€335,890.74	-€13,483.89	-€380,964.94
26/07/2014	€246,314.53	€4,284.30	-€339,115.54
27/07/2014	€282,009.26	-€1,936.28	-€308,222.21
28/07/2014	€158,834.62	-€7,303.63	-€361,105.39
29/07/2014	€352,826.94	-€19,061.68	-€366,657.54
30/07/2014	€126,068.01	-€2,383.07	-€366,112.56
31/07/2014	€283,337.90	-€3,756.17	-€373,644.96

Table 22 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

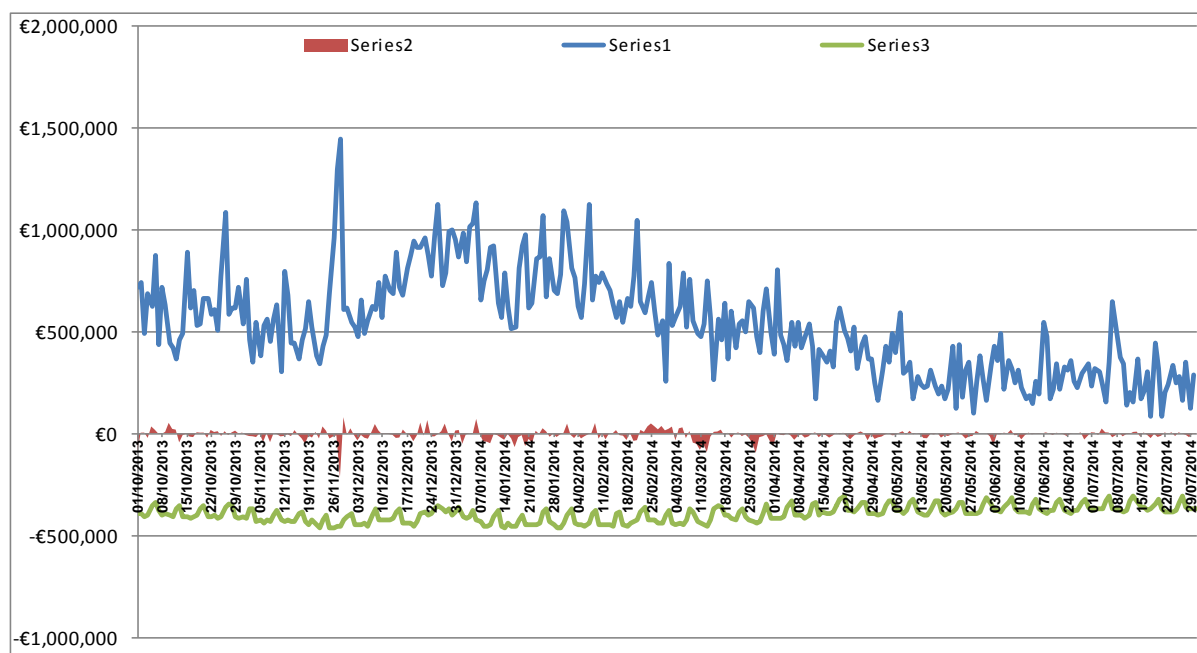


Figure 24 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

Week No	Make Whole Payments
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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
13	€6,346.71
14	€17,151.75
15	€35,987.24
16	€101,005.68
17	€91,892.49
18	€54,274.01
19	€66,864.22
20	€77,322.61
21	€97,206.32
22	€215,071.80
23	€218,478.64
24	€269,996.77
25	€250,003.28
26	€294,555.17
27	€290,810.60
28	€186,206.55

Table 23 - Make Whole Payments

Market Operator Monthly Report

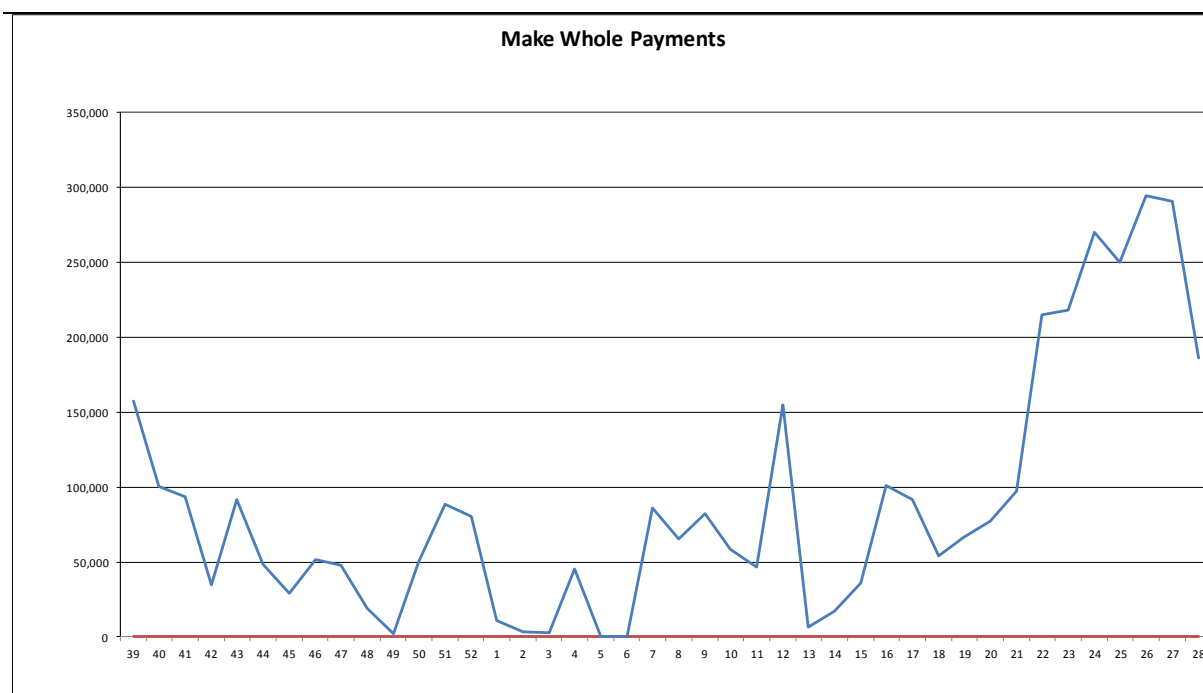


Figure 25 - Make Whole Payments

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
13	-€452.54
14	€0.00
15	€0.00
16	€0.00

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17	-€6,369.87
18	-€42,879.16
19	-€55,135.72
20	€0.00
21	-€29,681.62
22	-€32,784.19
23	-€52,367.06
24	-€52,022.02
25	€0.00
26	€0.00
27	€0.00
28	€0.00

Table 24 - Testing Charges

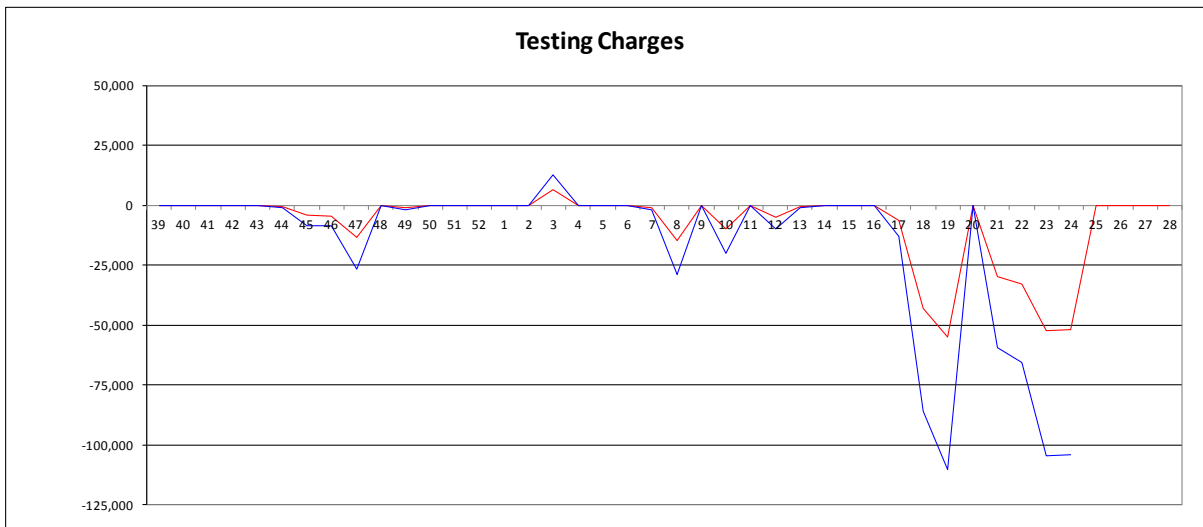


Figure 26 - Testing Charges

13 Appendix F: Default Commercial Offer Data Used

The table below lists for each unit the number of times in operations during June 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	31			31
PT_400106	DSU_401330	38			38
PT_400101	DSU_401300	31			31
PT_400021	GU_401640	17			17
PT_400024	GU_400120	31			31
PT_400024	GU_400121	31			31
PT_400026	GU_400140	31			31
PT_400030	GU_400180	41			41
PT_400030	GU_400181	42			42
PT_400030	GU_400182	42			42
PT_400030	GU_400183	41			41
PT_400030	GU_400200	39			39
PT_400030	GU_400201	38			38
PT_400030	GU_400202	38			38
PT_400030	GU_400203	38			38
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	38			38
PT_400030	GU_400250	36			36
PT_400030	GU_400251	36			36
PT_400030	GU_400252	37			37
PT_400030	GU_400260	37			37
PT_400030	GU_400270	36			36
PT_400030	GU_400271	41			41
PT_400030	GU_400272	39			39
PT_400030	GU_400280	36			36
PT_400030	GU_400281	36			36
PT_400030	GU_400290	37			37
PT_400030	GU_400300	41			41
PT_400030	GU_400311	42			42
PT_400030	GU_400323	41			41
PT_400030	GU_400360	36			36
PT_400030	GU_400361	36			36
PT_400030	GU_400362	36			36
PT_400030	GU_400363	37			37
PT_400030	GU_400370	37			37
PT_400030	GU_400850	42			42
PT_400032	GU_400430	31			31
PT_400034	GU_400940	31			31
PT_400034	GU_401090	31			31
PT_400034	GU_401440	31			31

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PT_400035	GU_400480	57		57
PT_400037	GU_400500	33		33
PT_400041	GU_400530	53		53
PT_400044	GU_400540	57		57
PT_400050	GU_401290	10		10
PT_400054	GU_400620	31		31
PT_400055	GU_400630	31		31
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_400762	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	83		83
PT_400077	GU_400950	31		31
PT_400078	GU_401010	31		31
PT_400078	GU_401011	31		31
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	31		31
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_500904	45		45
PT_500050	GU_501040	31		31
PT_500050	GU_501050	31		31
PT_500050	GU_501150	31		31
PT_500050	GU_501190	31		31
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

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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_400021	GU_401380			31	31
PT_400021	GU_401600			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_400062	GU_401310			31	31
PT_400062	GU_401550			31	31
PT_400062	GU_401551			31	31
PT_400062	GU_401560			31	31
PT_400062	GU_401570			31	31
PT_400062	GU_401580			31	31
PT_400082	GU_401100			31	31
PT_400087	GU_401230			31	31
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_500061	GU_501170			31	31
PT_500062	GU_501180			31	31
PT_500074	GU_501250			31	31
PT_400021	I_ROIEWIC	31			31
PT_500024	I_NIMOYLE	8			8
PT_500075	I_NIMOYLE	7			7
PT_500021	I_NIMOYLE	31			31
PT_400114	I_ROIEWIC	2			2
PT_500069	I_NIMOYLE	15			15
PT_500031	I_NIMOYLE	31			31
PT_500058	I_NIMOYLE	11			11
PT_500037	I_NIMOYLE	31			31
PT_400096	I_ROIEWIC	92			92
PT_400113	I_ROIEWIC	31			31
PT_400115	I_ROIEWIC	31			31
PT_400136	I_ROIEWIC	58			58

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PT_500070	I_NIMOYLE	6			6
PT_400108	I_ROIEWIC	40			40
PT_400099	I_ROIEWIC	31			31
PT_400030	I_ROIEWIC	34			34
Total		3751	0	1426	5177
Percentage		72.46%	0.00%	27.54%	100%

Table 25 - 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
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	£6,593,901.21	£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	£77,362.24	£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	£2,162,845.95	£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	96,269,985.03
	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

Table 26 - Total Charges by Month

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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
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	€94,802.99	€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	€10,349.43	€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

Table 27 - 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
04/04/2014	12	€1,005,736.03	€ 304,802.51
11/04/2014	13	€508,440.18	€ 423,038.98
18/04/2014	14	-€217,860.87	€ 56,687.76
25/04/2014	15	€843,391.20	-€ 37,846.05
02/05/2014	16	-€420,682.47	€188,369.50
09/05/2014	17	€347,401.87	-€241,641.43
16/05/2014	18	-€886,208.32	€41,357.12
23/05/2014	19	-€1,046,996.68	-€292,108.29
30/05/2014	20	-€686,867.47	-€79,044.71
06/06/2014	21	-€326,019.47	-€82,173.40
13/06/2014	22	-€802,412.50	-€18,940.35
20/06/2014	23	-€566,638.49	-€51,931.44
27/06/2014	24	-€559,663.83	-€346,567.51
04/07/2014	25	-€559,663.83	-€77,985.84
11/07/2014	26	-€486,978.50	€30,288.10

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Date Of Invoice	Week No	SEM Balancing Costs	VAT Balancing Costs
18/07/2014	27	-€64,357.82	€33,032.13
25/07/2014	28	-€1,005,927.10	-€40,984.50

Table 28 – 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
April 2014	-€294.96	-€3,446.68
May 2014	-€278.55	€1,776.78
June 2014	-€238.78	€973.06
July 2014	€-237.70	-€233.18

Table 29 - 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
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

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Month	Ex-Ante	Ex-Ante 2	Ex-Post Indicative	Ex-Post Initial	Within Day
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
April 2014	-	11/04/2014	-	07/04/2014	
May 2014	-	-	-	-	26/05/2014
June 2014	17/06/2014	-	18/06/2014 29/06/2014	-	25/06/2014 26/06/2014
July 2014	-	-	-	02/07/2014 03/07/2014 11/07/2014	-

Table 30 - MIP Algorithms

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

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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
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
10/04/2014	11/04/2014	EA2	€539.67	€143.88	MIP
03/04/2014	07/04/2014	EP2	€573.67	€670.25	MIP
26/05/2014	26/05/2014	WD1	€578.28	€301.71	MIP
16/06/2014	17/06/2014	EA1	€562.05	€534.28	MIP
19/06/2014	18/06/2014	EP1	€551.50	€526.61	MIP
30/06/2014	29/06/2014	EP1	€1,000	€956.83	MIP
25/06/2014	25/06/2014	WD1	€930.72	€57.32	MIP
26/06/2014	26/06/2014	WD1	€1,000	€69.50	MIP
02/07/2014	28/06/2014	EP2	€1,000	€338.00	MIP
03/07/2014	29/06/2014	EP2	€1,000	€955.38	MIP
11/07/2014	07/07/2014	EP2	€1,000	€288.48	MIP

Table 31 - MIP Vs LR Peak Price Comparison