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1. Executive Summary

This Single Electricity Market Operator's (SEMO) report covers the month of operation of August 2016 and is published in accordance with the Single Electricity Market (SEM) Committee decision and Clause 2.144 of the Trading and Settlement Code.

During the month of August 2016, Settlements had no late publications as per the Trading and Settlement code.

141 general queries were received in August 2016. During the same period 137 general queries were resolved.

There were 3 defaults by Participants during August 2016. The largest of these was an Energy Initial invoice for €2,817.81 which was remedied the same day.

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

2. Monthly Statistics

Trading and Settlement Code Breaches

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

	Trading and Settlement Code Breaches					
	Area					
Data Providers		-	-			
Market Participants	Pricing & Scheduling	-	-			
	Settlement	-	-			
	Funds Transfer	3	-			
	1	-				
SEMO Pricing & Scheduling		-	-			
	Settlement	-	1			
	Funds Transfer	1	1			
	Credit Risk Management	-	-			
	Other					
Total		3	1			

Table 1 – Trading and Settlement Code Breaches

Further details of each of the Trading and Settlement code breaches noted above are set out in <u>Appendix A</u>

Key:

- Major Breach late publishing of invoices, default notices issued for non-payment or similar.
- Minor Breach deadlines not met, but no financial implication to Participants. This includes late posting of pricing and settlement runs.

Joining and Terminating Parties and Units

Four parties joined the Market in August 2016

- PY 000159 TrailStone GmbH
- PY 000160 Dunman Energy Supply Limited
- PY 000163 Gaelectric Sustainable Energy Supply 2 Limited
- PY 000164 Glanarudddery Energy Supply Limited

There were no terminating parties in August 2016.

The following units went effective in the Market in August 2016:

- PT 500098/DSU 501450 Activation Energy DSU
- PT_500097/SU_500085 Activation Energy TSSU
- PT 400116/DSU 401870 Electricity Exchange 2
- PT 400117/SU 400192 Electricity Exchange 2
- PT 400124/DSU 401880 Veolia Alternative Energy Ireland Limited
- PT_400125/SU_400193 Veolia Alternative Energy Ireland Ltd
- PT 500094/GU 501390 Cloonty Windfarm
- PT 400173/SU 400189 New Measured Power Ltd T/A Pinergy
- PT_400173/SU_400190 New Measured Power Ltd T/C Pinergy

No units de-registered from the Market in August 2016.

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

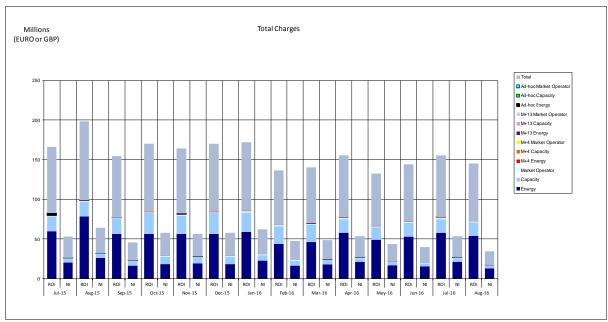


Figure 1 - Total Charges for Each Currency

Market	Aug 2016		
	ROI	NI	
Energy	€53,990,805	£13,463,141	
Capacity	€17,305,691	£3,676,030	
Market Operator	€1,082,680	£272,061	
M+4 Energy	€206,643	£22,684	
M+4 Capacity	€45,575	£6,912	
M+4 Market Operator	€1,901	£295	
M+13 Energy	€45,391	£2,907	
M+13 Capacity	€12,311	£2,274	
M+13 Market Operator	€323	£18	
Ad-hoc Energy	€0	£0	
Ad-hoc Capacity	€0	£0	
Ad-hoc Market Operator	€0	£0	
Total	€72,691,320	£17,446,322	

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.

Millions (EURO or GBP) Total Payments Total Payments ## Total ## As hoc Capa city ## As hoc Energy ## M+3 Market Operator ## M+4 Capacity

Total Payments for Each Currency

Aug-15 Sep-15 Oct-15 Nov-15 Dec-15 Jan-16

Figure 2 - Total Payments for Each Currency

Market	Aug 2016		
	ROI	NI	
Energy	€47,925,138	£13,904,887	
Capacity	€17,191,336	£3,784,287	
M+4 Energy	€205,102	£26,983	
M+4 Capacity	€45,376	£6,960	
M+4 Market Operator	€1,901	£295	
M+13 Energy	€46,132	£2,875	
M+13 Capacity	€12,064	£2,261	
M+13 Market Operator	€323	£18	
Ad-hoc Energy	€0	£0	
Ad-hoc Capacity	€0	£0	
Ad-hoc Market Operator	€0	£0	
Total	€65,427,372	£17,728,567	

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:

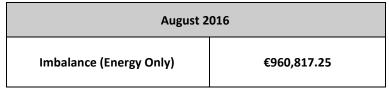


Table 4 - Balancing Costs for Energy Settlement

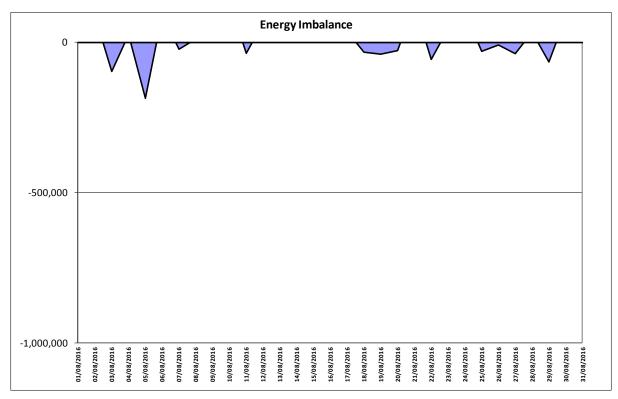


Figure 3 – Energy Imbalances

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.

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
05/08/2016	30	-€186,586.75	-€0
12/08/2016	31	-€117,429.10	-€0
19/08/2016	32	-€511,694.11	-€0
26/08/2016	33	-€338,852.43	-€0

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 Trading and Settlement Code.

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

August 2016				
Capacity Charges	-€33,707,604.52			
Capacity Payments	€33,707,353.91			
Balancing Costs	-€250.61			
VAT	€0			

Table 6 - Balancing Costs for Capacity Settlement

Historical figures, the current financial year full Balancing Costs for both Trading and Capacity are provided in <u>Appendix H</u>. 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) 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 Trading and Settlement 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
30/07/2016	05/08/2016	30	-£2,888.66	-£1,200.00	-£4,088.66
06/08/2016	12/08/2016	31	-£29,270.17	£1,710.00	-£27,560.17
13/08/2016	19/08/2016	32	£26,855.53	£4,575.00	£31,430.53
20/08/2016	26/08/2016	33	£20,403.22	-£2,300.00	£18,103.22

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 Interjurisdictional SRA Currency Costs.

Over the period of this report Currency Costs for each week represented a benefit to Participants of up to £31,430.53 and a cost of -£27,560.17. 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
09/09/2016	August 2016	£29,970.65

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 2015. 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	Total Uninstructed	Total Make Whole	
Payments	Imbalance	Payments	Total Imperfections
€136,977,217.90	-€2,784,129.97	€9,680,906.29	-€136,591,214.50

Table 9 – Cumulative Imperfections Costs Vs Budget

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

This is demonstrated in the figure below.

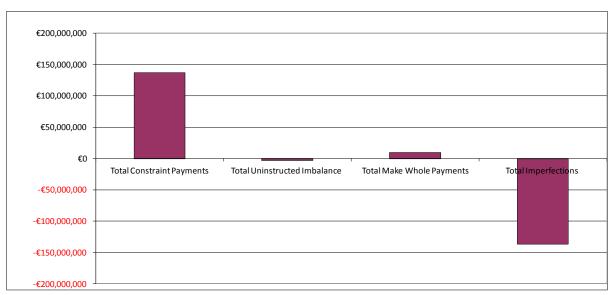


Figure 4 - Cumulative Imperfections Costs Vs Budget

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 April 2016 and M+13 resettlement period of July 2015 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).
- Negative amounts indicate net additional payment to be made to Participants (Payments).

The reverse is true for Figure 7 & 10

M+4 Resettlement

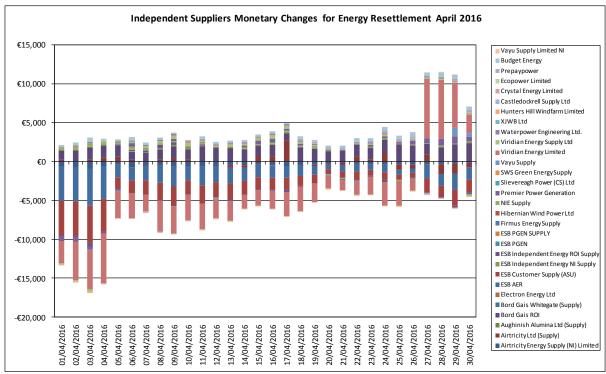


Figure 5 - Independent Suppliers Monetary Changes for Energy Resettlement - April 2016

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

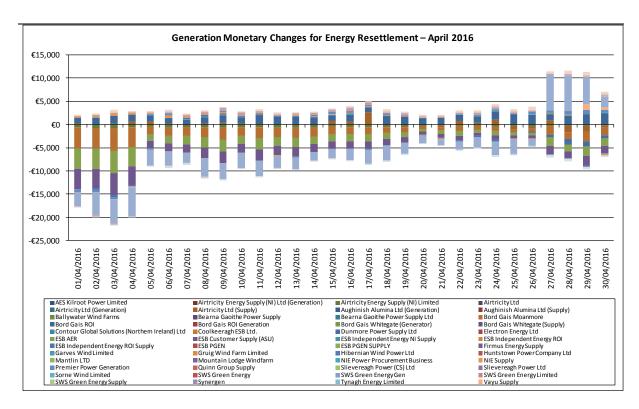


Figure 6 - Generation Monetary Changes for Energy Resettlement - April 2016

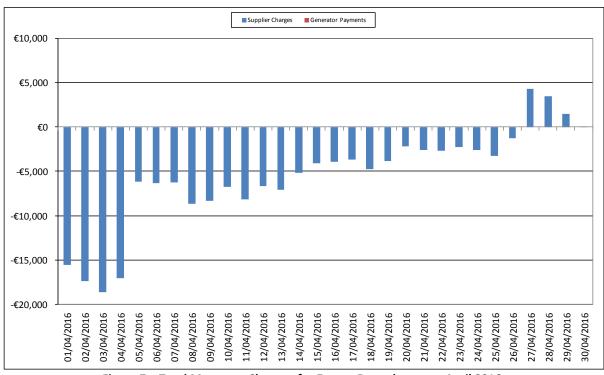


Figure 7 – Total Monetary Changes for Energy Resettlement – April 2016

M+13 Resettlement

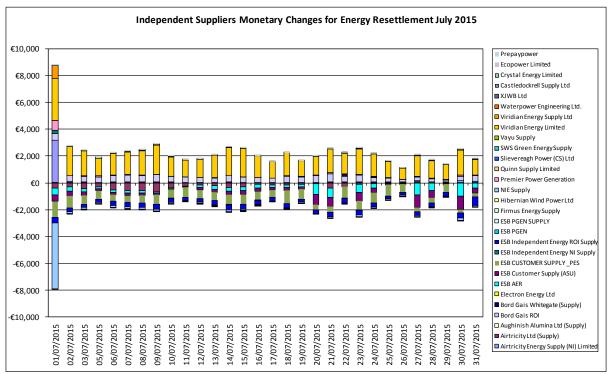


Figure 8 - Independent Suppliers Monetary Changes for Energy Resettlement - July 2015

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

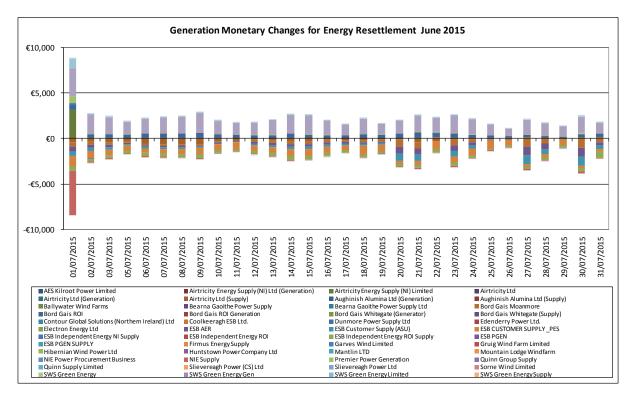


Figure 9 - Generation Monetary Changes for Energy Resettlement - July 2015

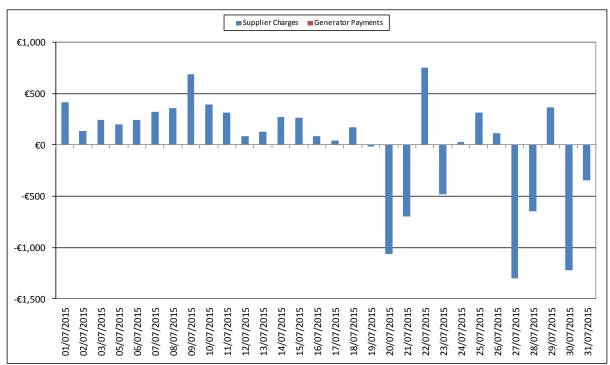


Figure 10 - Total Monetary Changes for Energy Resettlement - July 2015

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 <u>to</u> Participants (Payments)

The reverse is true for Figure 14 & 22.

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

M+4 Resettlement

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

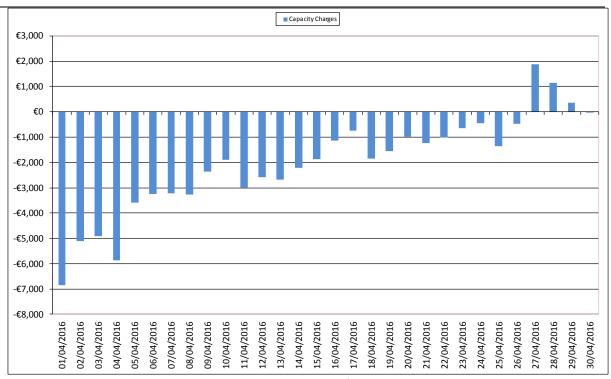


Figure 11 - Independent Suppliers Monetary Changes for Capacity Resettlement – April 2016

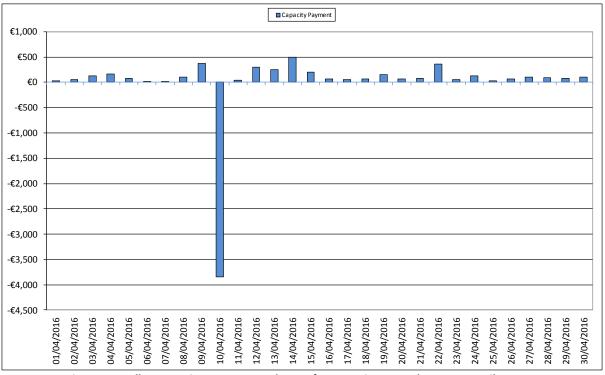


Figure 12 - All Generation Monetary Change for Capacity Resettlement - April 2016

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

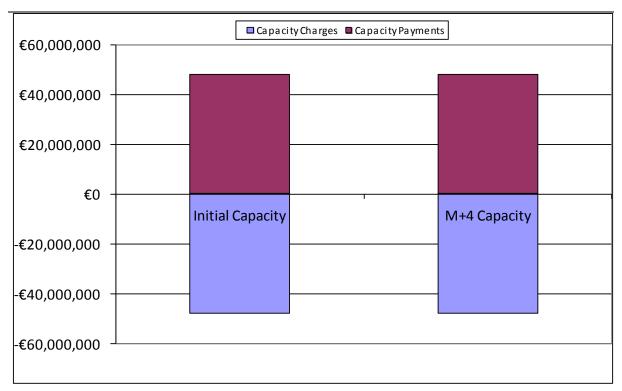


Figure 13 - Comparison of Distribution of Monetary Amounts between Capacity Initial and Resettlement April 2016

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

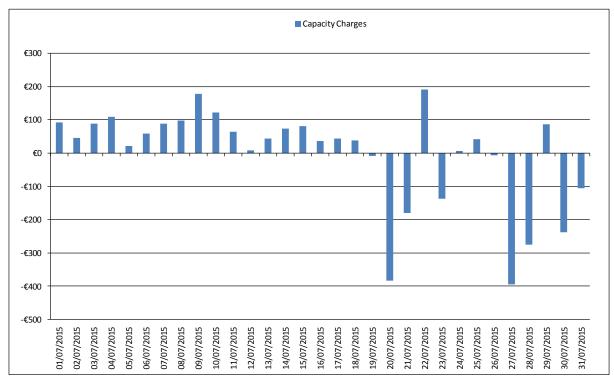


Figure 14 - Independent Suppliers Monetary Changes for Capacity Resettlement - July 2015

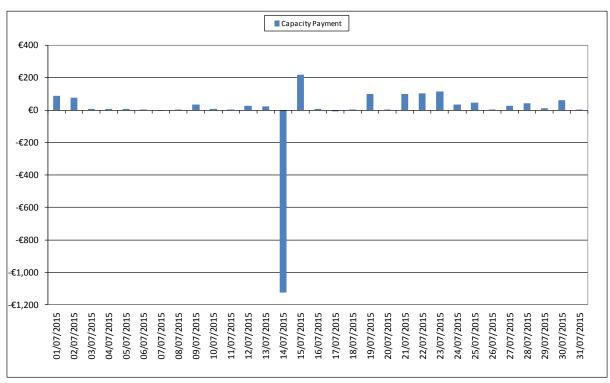


Figure 15 – All Generation Monetary Change for Capacity Resettlement – July 2015

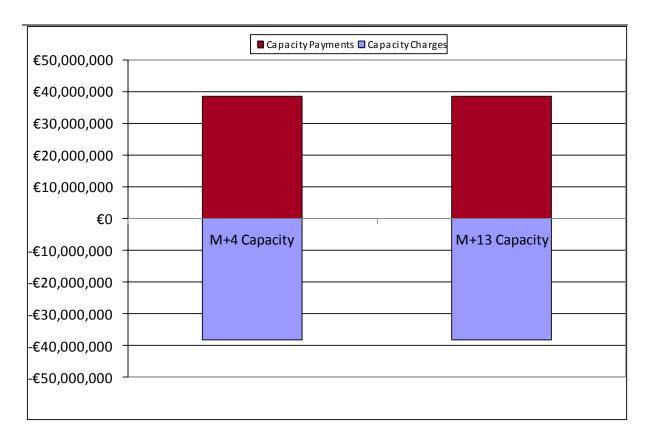


Figure 16 - Comparison of Distribution of Monetary Amounts between M+4 Capacity Resettlement and M+13 Capacity Resettlement – July 2015

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 August 2016.

Market Helpdesk Report: 01/08/16 to 31/08/16

	Received	Resolved within the period	Not Resolved	Resolved in the period	Resolution Time (Working Days)	Resolved On Time
Normal	141	122	19	137	0.78	135
Important	0	0	0	0	0.00	0
Urgent	0	0	0	0	0.00	0
Settlement	9	3	6	3	1.54	3
Credit	0	0	0	0	0.00	0
Dispute	0	0	0	0	0.00	0
Data	0	0	0	0	0.00	0
Total/Average	150	125	25	140	0.47	138

Table 10 - Helpdesk Statistics

Definitions:

- Resolved within the Period refers to queries raised and resolved within the calendar month of August 2016.
- Resolved in the Period refers to queries resolved within August 2016, 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 August 2016.
- Not Resolved refers to queries raised but not resolved within August 2016.
- 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 a mandated service level under the Trading and Settlement Code.
- Disputes are where a dispute has been raised over the outcome of a data or settlement query.

The average resolution time for General Queries has decreased by 0.10 working days from 0.88 in July 2016 to 0.78 working days in August 2016. SEMO has a metric to resolve General Queries within 20 Working Days. These include queries received over the phone and e-mail.

Data and Settlement Queries generally continue to be responded to within the timelines required by the Trading and Settlement Code, i.e. one calendar month. No Formal Query timeline extensions were required during August 2016 with regard to formal Settlement Queries.

5. Disputes and Queries

5.1.1 Disputes

No Disputes were raised during the month of August 2016.

5.1.2 Data Queries

There were no formal data queries raised during the month of August 2016.

5.1.3 Settlement Queries

There were Nine formal Settlement Queries raised in August 2016. Five of the Nine queries were upheld and have since been resolved.

Торіс	Number Of Queries
Actual Availability	3
Meter Generation	1
Dispatch Instructions	1

Table 11 - Upheld Settlement Queries by topic

- Three queries relating to incorrect Availabilities were raised. These queries were deemed to be of low materiality. An adhoc resettlement was scheduled for one. The remaining two will be corrected within M+4 & M+13 capacity resettlement.
- One query relating to incorrect Dispatch Instructions was raised. This was deemed to be of low materiality and will be corrected within M+4 resettlement.
- One query relating to incorrect Meter Generation was raised. This was deemed to be of low materiality and will be corrected within M+4 & M+13 resettlement.

Unresolved Queries

There is one unresolved settlement query as of the 13th September 2016.

A full list of all the Data and Settlement queries raised is contained in Appendix B.

6. Central Systems

6.1 Proportion of Default Data Used

On review of the Commercial Offer Data used in the MSP runs, 64.91% of data used was submitted by Participants through the normal Bid-Offer process. 35.09% of the data used was based on Standing Commercial Offer Data. 0.0% 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.

6.2 Proportion of Estimated Meter Data used in Initial Settlement and Resettlement

This is not calculable presently.

6.3 List of System Errors and Re-runs

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

6.3.1 Re-Pricing and Resettlement Runs

There were no Re-Price runs carried out in August 2016.

There were no Re-Settlement runs carried out in August 2016.

6.3.2 System Errors

There were no Market Application defects found in August 2016.

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

6.4 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 August 2016.

6.4.1 MSP Postings August 2016

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

Table 12 - 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 13 - Operational Timings (% on time)

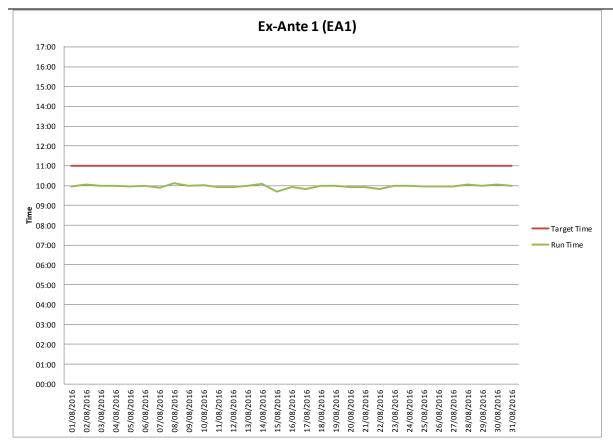


Figure 17 - Ex-Ante 1

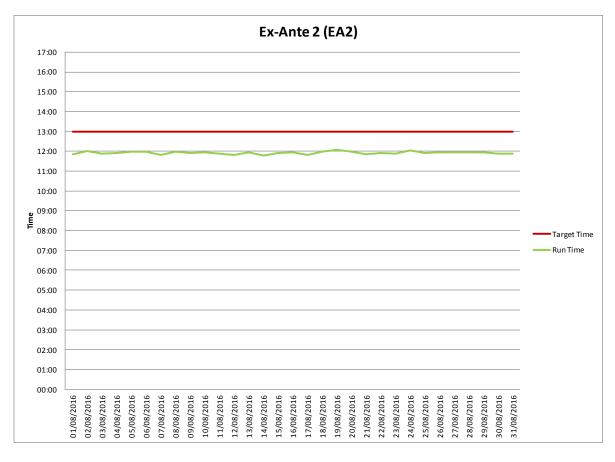


Figure 18 - Ex-Ante 2

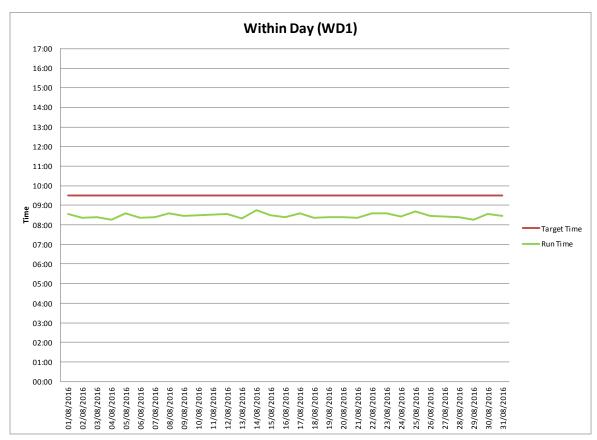


Figure 19 - Within Day 1

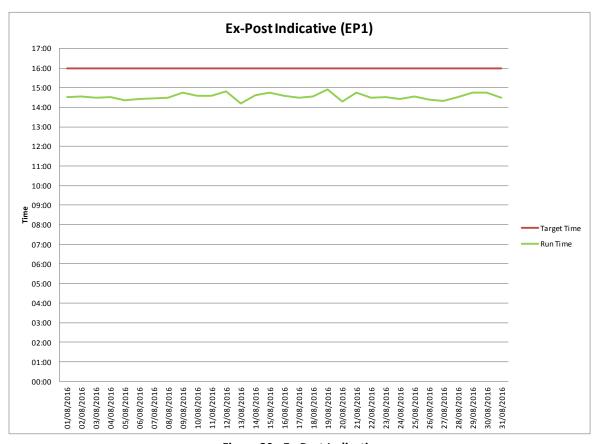


Figure 20 - Ex-Post Indicative

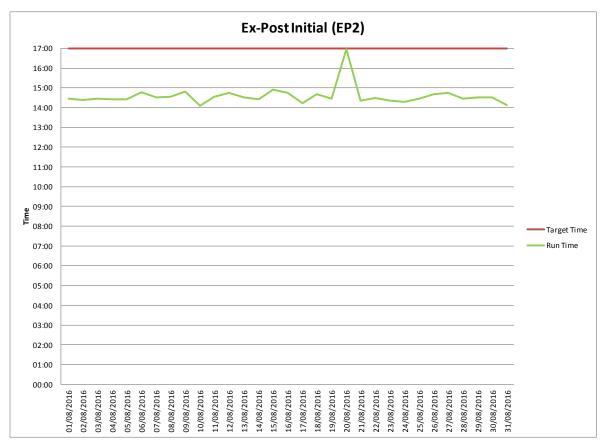


Figure 21 - Ex-Post Initial

Details of the operational timings of the Market System and Price (MSP) runs and Gate Closure are provided in <u>Appendix D</u>.

6.4.2 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 August 2016, there was one instance 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.

6.4.2 Settlement Postings August 2016

The publication timings for Settlement runs are provided below.

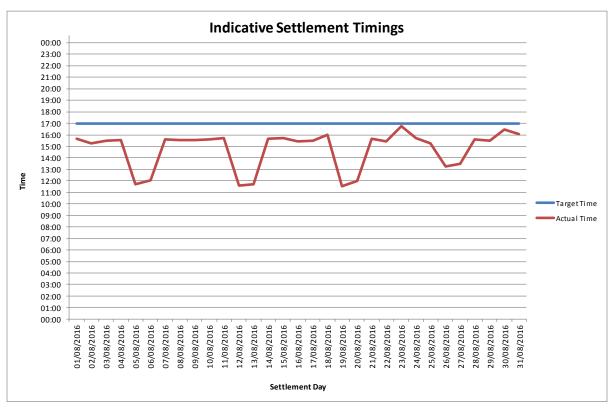


Figure 22 - Indicative Settlement Postings

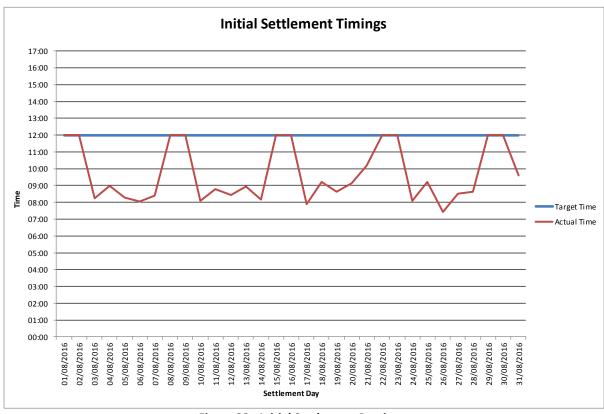


Figure 23 - Initial Settlement Postings

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

6.5.1 Release SEM R2.7.0 (Deployed: November 2nd 2015)

SEM R2.7.0 went live on Friday November 2nd with no issues

UUC 3.7.1 – (Deployed December 15th 2015)

UUC 3.7.1 was deployed on December 15th and the below defect fixes were applied.

ABB2015142976 – IP – IP heat state – Down Time ABB2015143445 – DSP – Availability Profile (Dual Energy Unit)

6.5.2 Release SEM R2.8.0 (Deployed June 17th 2016)

SEM R2.8.0 went live on Friday June 17th with no issues

7. Occasional Components

7.1 Disaster Recovery/Business Continuity Tests

There were no scheduled Business Continuity tests performed during August 2016.

7.3 Communications or Systems Failures

There were no Communications or Systems Failures in August 2016

7.4 Denial of Service Attacks

There was no Denial of Service Attacks during August 2016.

7.5 Submission of Parameters to RAs for Approval

The following yearly reports were submitted to the Regulatory Authorities in line with SEMO's obligations under the T&SC:

- 1. MSP Software Penalty Parameters Report 2017
- 2. Credit Cover Parameters Report 2017

8. Appendix A: Detail of Trading and Settlement Code Breaches

Market Participant



Table 14 - Trading and Settlement Code Breaches - Market Participants

SEMO - Pricing and Scheduling

There were no issues to report in August 2016.

SEMO - Settlements



Table 15 - Trading and Settlement Code Breaches - Settlements

SEMO - Funds Transfer

There were no issues to report in August 2016.

SEMO - Credit Management

There were no issues to report in August 2016.

SEMO - Other

There were no issues to report in August 2016.

Appendix B: List of Queries by Type

Summary Title	Description	ID	Logged On	Date sent to MP	Туре
Actual Availabilities	Whitegate Generator (PT_400075) was returning from a forced outage in a cold heat state and was available to generate in the market at 12.00 Tuesday 28th March. At the time of returning to service the 12 hour notification (time usually required to synchronise the unit to the system from a cold start) was added to the 12.00 time resulting in actual availability of 23.59 Tuesday 28th March. Following discussions with Bord Gáis Energy and Real Time Operations, it was agreed that the unit could have synchronised at 12.00 Tuesday 28th March having completed a full speed no load test at that time. Based on ambient conditions for the day the average availability for VMitegate COGT would have been 439 M/V. This settlement query related only to capacity payments. No energy payment resettlement is sought.			2016-08-25	Settlement
Maket Schedule Quantities	GU_400250 (Liffey 1) and GU_400251 (Liffey 2). Both units were constrained off due to networks outage but units were submitting targets. Liffey 1 8 2 should have received payments for these targets for the period 15th July to 5th August but on checking settlement data no energy payments were received.	PT_400030	2016-08-18	2016-09-07	Settlement
Dispatch Instructions	Failisync workground required for trade date 14/08/2016. The issue time of the MAVOF instruction at effective time 16:59 needs to be amended from 17:00 to 16:59 in order for the instruction profiler to apply the FAILSYNC instruction correctly.	PT_500045	2016-08-19	2016-08-27	Settlement
Actual Availabilities	On 25/06/2016 at 14.34 the Cookeeragh ESB CCGT known as C30 automatically transferred from gas to liquid fuel as a means of generating electricity. This action was represented in EDL by declaring C30 as 0MWs on gas and 380 MWs on liquid fuel. The 380MW declaration for liquid fuel was not automatically transferred to the market resulting in C30 being declared 0MWs for 1 hour post event.	PT_500024	2016-08-19	2016-08-28	Settlement
Dispatch Instructions	GU_400500 (Synergen). Unit was performing a secondary fuel test on 14th April. There are a number of TEST flags in EDIL for this testing which I believe to be incorrect as secondary fuel testing is not the usual testing carried out within the market. AS a	PT_400037	2016-08-25	2016-08-29	Settlement
Meter Demand	The demand files submitted for Settlement Dates 06:00 01:01/16 to 16:00 02/08/2016 will be affected due to a unit B6 being decommissioned by the participant. Subsequent to the decommissioning of Unit B6 the imported units should have been spread over 2 r	PT_500028	2016-08-25	2016-08-30	Settlement
Summary Title	Description	ID	Logged On	Date sent to MP	Туре
Meter Generation	Ballyhumford Unit 6 (GU_500280) was decommissioned on 1st January 2016 at 06:00. As a result the metering model for B445 8 86 had to be adjusted to take account of B6 no longer being in service. This has taken some time to agree and implement the changes. We are now in a position to resubmit the export data for resettlement for the period 01/01/16 to 02/08/16. We do not anticipate that this will be above the materiality threshold for the periods in question (01/01/16 to 02/08/16), however we wish to advise SEMO of the potential differences. This query is also linked to a query raised by NIE (F0068463) for the import data.	TSO_SONI	2016-08-31	2016-08-31	Settlement
Actual Availabilities	SONII have sent incorrect Actual Availability data to SEMO for Empower AGU (GU_501230) from 00:00 24/06/2016 until 00:00 23/06/2016. Values of 0MMV were submitted when the availability values should have been: □ 6MMV from 00:00 24/06/2016 to 06:00 07/07/2016 □ 7MMV from 06:00 07/07/2016 to 00:00 10/08/2016 □ 5MMV from 00:00 31/08/2016 to 00:00 31/08/2016 □ 7MMV from 00:00 31/08/2016 to 00:00 23/08/2016 Following these dates, the correct values have been sent through.	TSO_SONI	2016-08-31	2016-09-01	Settlement
Meter Data	There is a variance between the M+13 PIR data published by the Market and the corresponding MRSO Meter Data. This is for the period 28th July to 31st of July 2015. This variance has been spread over the full 24 hour period of each day.	PT_500030	2016-08-31	2016-09-01	Settlement

Table 16 - Formal Queries

9. 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.

There were no Market Application defect found in August 2016.

Issue	e No.	Description	Effect	Fixed from	Re-Pricing	Resettlement	Status
	-	-	-	-	-	-	-

Table 17 - List of System Errors and Failures

9. Appendix D: Details of Operational Timings

Market Schedule and Price Runs

	EA1 Postings	•	EA2 Postings		WD1 Postings		EP1Postings		EP2 Postings	
Operational Day	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
01/08/2016	11:00	09:57	13:00	11:50	09:30	08:34	16:00	14:31	17:00	14:27
02/08/2016	11:00	10:03	13:00	12:01	09:30	08:21	16:00	14:33	17:00	14:23
03/08/2016	11:00	10:00	13:00	11:53	09:30	08:24	16:00	14:29	17:00	14:27
04/08/2016	11:00	09:59	13:00	11:54	09:30	08:16	16:00	14:31	17:00	14:25
05/08/2016	11:00	09:58	13:00	11:59	09:30	08:36	16:00	14:22	17:00	14:25
06/08/2016	11:00	10:00	13:00	11:59	09:30	08:21	16:00	14:25	17:00	14:47
07/08/2016	11:00	09:54	13:00	11:49	09:30	08:23	16:00	14:28	17:00	14:31
08/08/2016	11:00	10:07	13:00	11:59	09:30	08:36	16:00	14:29	17:00	14:33
09/08/2016	11:00	09:59	13:00	11:54	09:30	08:28	16:00	14:45	17:00	14:49
10/08/2016	11:00	10:02	13:00	11:56	09:30	08:29	16:00	14:35	17:00	14:06
11/08/2016	11:00	09:56	13:00	11:53	09:30	08:32	16:00	14:36	17:00	14:33
12/08/2016	11:00	09:55	13:00	11:49	09:30	08:34	16:00	14:49	17:00	14:45
13/08/2016	11:00	09:59	13:00	11:56	09:30	08:19	16:00	14:11	17:00	14:31
14/08/2016	11:00	10:06	13:00	11:46	09:30	08:45	16:00	14:37	17:00	14:25
15/08/2016	11:00	09:42	13:00	11:55	09:30	08:30	16:00	14:45	17:00	14:54
16/08/2016	11:00	09:56	13:00	11:57	09:30	08:23	16:00	14:35	17:00	14:44
17/08/2016	11:00	09:50	13:00	11:49	09:30	08:35	16:00	14:29	17:00	14:14
18/08/2016	11:00	09:59	13:00	11:58	09:30	08:22	16:00	14:33	17:00	14:40
19/08/2016	11:00	09:59	13:00	12:04	09:30	08:24	16:00	14:54	17:00	14:28
20/08/2016	11:00	09:56	13:00	11:58	09:30	08:23	16:00	14:18	17:00	16:57
21/08/2016	11:00	09:56	13:00	11:51	09:30	08:21	16:00	14:44	17:00	14:22
22/08/2016	11:00	09:49	13:00	11:54	09:30	08:36	16:00	14:30	17:00	14:29
23/08/2016	11:00	10:00	13:00	11:53	09:30	08:35	16:00	14:32	17:00	14:21
24/08/2016	11:00	10:00	13:00	12:02	09:30	08:26	16:00	14:26	17:00	14:17
25/08/2016	11:00	09:57	13:00	11:55	09:30	08:42	16:00	14:33	17:00	14:27
26/08/2016	11:00	09:58	13:00	11:57	09:30	08:28	16:00	14:23	17:00	14:40
27/08/2016	11:00	09:58	13:00	11:57	09:30	08:26	16:00	14:19	17:00	14:45
28/08/2016	11:00	10:03	13:00	11:57	09:30	08:24	16:00	14:31	17:00	14:28
29/08/2016	11:00	10:00	13:00	11:57	09:30	08:15	16:00	14:45	17:00	14:32
30/08/2016	11:00	10:03	13:00	11:53	09:30	08:34	16:00	14:45	17:00	14:32
31/08/2016	11:00	10:00	13:00	11:52	09:30	08:28	16:00	14:30	17:00	14:08

Table 18 - MSP Runs

Settlement Runs

	Indicativ	re			Initial				
Trading Day	Actual Date	Target Time	Actual Time	Trading Day	Actual Date	Target Time	Actual Time		
01/08/2016	02/08/2016	17:00	15:41	01/08/2016	08/08/2016	12:00	07:50		
02/08/2016	03/08/2016	17:00	15:16	02/08/2016	09/08/2016	12:00	07:49		
03/08/2016	04/08/2016	17:00	15:29	03/08/2016	10/08/2016	12:00	08:05		
04/08/2016	05/08/2016	17:00	15:33	04/08/2016	11/08/2016	12:00	08:14		
05/08/2016	08/08/2016	17:00	11:44	05/08/2016	12/08/2016	12:00	12:00		
06/08/2016	08/08/2016	17:00	12:02	06/08/2016	12/08/2016	12:00	12:00		
07/08/2016	08/08/2016	17:00	15:36	07/08/2016	12/08/2016	12:00	08:12		
08/08/2016	09/08/2016	17:00	15:33	08/08/2016	15/08/2016	12:00	08:50		
09/08/2016	10/08/2016	17:00	15:32	09/08/2016	16/08/2016	12:00	07:52		
10/08/2016	11/08/2016	17:00	15:36	10/08/2016	17/08/2016	12:00	09:14		
11/08/2016	12/08/2016	17:00	15:43	11/08/2016	18/08/2016	12:00	07:32		
12/08/2016	15/08/2016	17:00	11:37	12/08/2016	19/08/2016	12:00	12:00		
13/08/2016	15/08/2016	17:00	11:42	13/08/2016	19/08/2016	12:00	12:00		
14/08/2016	15/08/2016	17:00	15:41	14/08/2016	19/08/2016	12:00	08:02		
15/08/2016	16/08/2016	17:00	15:42	15/08/2016	22/08/2016	12:00	08:55		
16/08/2016	17/08/2016	17:00	15:26	16/08/2016	23/08/2016	12:00	07:10		
17/08/2016	18/08/2016	17:00	15:30	17/08/2016	24/08/2016	12:00	08:40		
18/08/2016	19/08/2016	17:00	16:01	18/08/2016	25/08/2016	12:00	07:36		
19/08/2016	22/08/2016	17:00	11:31	19/08/2016	26/08/2016	12:00	12:00		
20/08/2016	22/08/2016	17:00	11:58	20/08/2016	26/08/2016	12:00	12:00		
21/08/2016	22/08/2016	17:00	15:38	21/08/2016	26/08/2016	12:00	07:26		
22/08/2016	23/08/2016	17:00	15:27	22/08/2016	29/08/2016	12:00	09:31		
23/08/2016	24/08/2016	17:00	16:46	23/08/2016	30/08/2016	12:00	09:00		
24/08/2016	25/08/2016	17:00	15:43	24/08/2016	31/08/2016	12:00	08:26		
25/08/2016	26/08/2016	17:00	15:17	25/08/2016	01/09/2016	12:00	08:17		
26/08/2016	29/08/2016	17:00	13:14	26/08/2016	02/09/2016	12:00	12:00		
27/08/2016	29/08/2016	17:00	13:28	27/08/2016	02/09/2016	12:00	12:00		
28/08/2016	29/08/2016	17:00	15:35	28/08/2016	02/09/2016	12:00	08:00		
29/08/2016	30/08/2016	17:00	15:28	29/08/2016	05/09/2016	12:00	08:58		
30/08/2016	31/08/2016	17:00	16:29	30/08/2016	06/09/2016	12:00	07:42		
31/08/2016	01/09/2016	17:00	16:04	31/08/2016	07/09/2016	12:00	08:56		

Table 19 – Settlement Runs

10. 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	Constraint Payments	Uninstructed Imbalance Payments	Imperfections Charges
01/10/2015	€184,048.17	-€2,821.59	-€417,294.17
02/10/2015	€236,003.67	-€8,758.78	-€418,385.31
03/10/2015	€447,568.14	-€8,429.85	-€381,381.79
04/10/2015	€355,210.41	-€24,773.87	-€349,405.45
05/10/2015	€403,998.22	-€16,845.94	-€406,685.67
06/10/2015	€408,090.09	-€11,370.17	-€409,451.55
07/10/2015	€396,852.65	-€1,016.51	-€416,499.23
08/10/2015	€833,027.77	-€21,031.97	-€419,217.67
09/10/2015	€571,135.00	-€23,911.84	-€409,985.99
10/10/2015	€426,624.39	-€275.88	-€376,563.72
11/10/2015	€590,507.33	-€216.51	-€366,642.39
12/10/2015	€615,907.40	-€2,922.19	-€408,081.59
13/10/2015	€488,323.11	-€17,640.65	-€428,288.19
14/10/2015	€323,841.39	-€15,630.17	-€430,023.84
15/10/2015	€570,171.09	-€34,678.33	-€435,691.74
16/10/2015	€504,000.21	€18,400.98	-€429,027.80
17/10/2015	€539,706.96	-€10,829.35	-€390,086.25
18/10/2015	€266,275.31	-€19,394.40	-€378,763.32
19/10/2015	€691,729.65	-€1,637.61	-€431,384.59
20/10/2015	€416,398.00	-€16,742.61	-€431,705.80
21/10/2015	€432,672.89	€2,922.97	-€414,059.84
22/10/2015	€641,039.51	-€16,128.91	-€417,064.06
23/10/2015	€459,729.27	-€2,884.82	-€406,407.83
24/10/2015	€402,573.36	-€210.62	-€371,022.63
25/10/2015	€555,628.53	-€9,138.35	-€360,591.55
26/10/2015	€564,608.59	-€10,138.06	-€363,999.10
27/10/2015	€330,626.10	-€5,378.00	-€424,726.29
28/10/2015	€336,368.51	€2,317.42	-€421,130.98
29/10/2015	€695,460.11	-€15,712.74	-€418,305.21
30/10/2015	€614,928.96	-€7,082.05	-€407,138.37
31/10/2015	€291,199.69	-€8,191.01	-€379,817.58
01/11/2015	€219,117.61	-€16,496.48	-€370,314.93
02/11/2015	€418,967.95	-€965.50	-€422,957.41
03/11/2015	€375,447.29	-€8,157.08	-€443,867.51
04/11/2015	€401,223.42	-€20,165.19	-€446,024.38
05/11/2015	€326,445.86	-€1,493.30	-€443,483.97
06/11/2015	€461,976.61	-€30,206.25	-€413,708.71
07/11/2015	€776,346.02	-€22,596.69	-€388,100.95
08/11/2015	€351,184.98	-€7,740.85	-€356,069.06
09/11/2015	€637,710.42	-€15,306.58	-€410,651.49

10/11/2015	€346,932.55	€18,683.61	-€423,279.30
11/11/2015	€413,412.33	-€1,064.81	-€424,401.75
12/11/2015	€529,981.98	-€242.98	-€418,872.75
13/11/2015	€569,259.07	-€8,771.45	-€422,080.80
14/11/2015	€774,203.83	€7,975.32	-€400,612.57
15/11/2015	€652,155.86	-€1,432.95	-€362,387.34
16/11/2015	€393,453.63	-€59.62	-€426,655.42
17/11/2015	€722,783.23	-€4,356.33	-€445,955.61
18/11/2015	€656,773.28	-€14,208.65	-€430,119.19
19/11/2015	€574,200.46	€5,810.96	-€443,090.07
20/11/2015	€502,887.86	-€13,637.60	-€434,712.02
21/11/2015	€329,836.85	-€38,020.15	-€414,867.81
22/11/2015	€409,044.29	-€33,132.32	-€401,644.24
23/11/2015	€544,326.53	-€41,817.18	-€458,997.21
24/11/2015	€672,152.53	-€33,178.27	-€447,378.21
25/11/2015	€499,335.30	-€28,725.98	-€443,985.11
26/11/2015	€513,763.56	-€25,251.46	-€450,711.04
27/11/2015	€517,347.42	€5,245.16	-€433,116.49
28/11/2015	€528,876.77	-€26,426.01	-€399,484.36
29/11/2015	€778,321.27	-€1,046.20	-€383,956.46
30/11/2015	€479,044.79	-€9,894.47	-€463,918.12
01/12/2015	€688,673.73	-€26,887.62	-€438,251.29
02/12/2015	€317,798.49	-€52,895.68	-€456,989.27
03/12/2015	€405,603.50	-€5,897.64	-€476,134.19
04/12/2015	€774,967.27	-€15,545.28	-€438,397.60
05/12/2015	€640,701.45	-€13,804.14	-€404,055.15
06/12/2015	€366,403.91	-€12,707.39	-€396,607.78
07/12/2015	€733,517.52	-€25,280.71	-€433,440.19
08/12/2015	€432,398.54	-€17,081.48	-€445,634.75
09/12/2015	€542,863.04	-€14,765.85	-€444,156.73
10/12/2015	€335,601.49	-€40,789.27	-€457,423.12
11/12/2015	€426,928.12	-€51,155.51	-€457,168.99
12/12/2015	€558,417.52	-€21,084.89	-€437,241.40
13/12/2015	€546,224.69	-€43,154.55	-€414,260.41
14/12/2015	€686,747.66	-€34,497.65	-€460,059.67
15/12/2015	€625,379.03	-€6,605.71	-€453,446.82
16/12/2015	€674,889.78	-€18,367.78	-€449,690.27
17/12/2015	€534,573.55	-€35,533.70	-€433,385.22
18/12/2015	€561,845.35	-€6,582.15	-€425,519.13
19/12/2015	€423,888.14	-€5,214.50	-€388,770.80
20/12/2015	€458,505.06	-€21,975.88	-€375,498.89
21/12/2015	€605,543.76	€16,466.74	-€428,588.77
22/12/2015	€548,907.53	-€12,058.23	-€427,504.11
23/12/2015	€472,007.50	-€19,683.94	-€413,722.07
24/12/2015	€507,025.65	-€5,808.78	-€397,502.21
25/12/2015	€466,531.15	-€19,958.55	-€378,631.22
26/12/2015	€672,569.18	-€36,627.88	-€371,370.00
27/12/2015	€577,471.28	-€14,743.88	-€363,828.00
28/12/2015	€541,909.71	-€15,443.22	-€370,868.50
29/12/2015	€562,888.56	-€24,503.42	-€390,443.22
30/12/2015	€549,349.10	-€30,384.77	-€406,360.94
31/12/2015	€545,345.10	-€18,802.40	-€401,563.71
01/01/2016	€689,760.94	-€18,802.40	-€365,263.12
02/01/2016	€492,831.57	-€16,808.75	-€390,938.01
02/01/2010	C4 32,031.3/	-£10,000./3	-6350,530.01

03/01/2016	€669,891.66	-€16,141.80	-€375,443.72
04/01/2016	€573,233.57	-€34,326.56	-€450,226.02
05/01/2016	€435,278.99	-€25,445.82	-€460,068.79
06/01/2016	€585,769.51	-€22,376.47	-€460,608.31
07/01/2016	€564,412.70	-€26,102.04	-€457,172.75
08/01/2016	€641,220.35	-€42,045.33	-€471,327.45
09/01/2016	€465,563.07	-€46,512.09	-€432,525.47
10/01/2016	€374,477.07	-€17,958.10	-€398,740.15
11/01/2016	€730,610.46	-€22,706.28	-€462,407.83
12/01/2016	€893,675.22	-€25,526.60	-€461,905.69
13/01/2016	€609,072.41	-€16,239.00	-€490,044.13
14/01/2016	€614,891.06	-€3,271.45	-€481,120.21
15/01/2016	€806,386.69	-€13,038.69	-€478,851.54
16/01/2016	€589,940.36	-€24,198.25	-€449,493.17
17/01/2016	€656,975.06	-€19,835.70	-€405,187.70
18/01/2016	€591,258.57	-€22,988.96	-€471,911.07
19/01/2016	€587,424.24	-€18,363.37	-€485,999.85
20/01/2016	€1,130,986.02	-€21,465.95	-€462,957.59
21/01/2016	€353,313.73	-€13,537.96	-€450,018.68
22/01/2016	€611,509.08	-€17,971.52	-€426,380.74
23/01/2016	€460,904.51	-€2,280.58	-€398,950.24
24/01/2016	€550,240.84	-€14,040.81	-€368,837.06
25/01/2016	€548,029.04	-€20,439.75	-€421,148.52
26/01/2016	€568,891.68	-€11,807.40	-€438,987.16
27/01/2016	€471,646.80	-€12,605.30	-€447,546.40
28/01/2016	€450,308.88	-€17,111.09	-€442,561.56
29/01/2016	€549,778.85	-€4,890.00	-€428,252.99
30/01/2016	€410,857.34	-€10,070.58	-€406,925.84
31/01/2016	€585,912.71	-€17,459.55	-€386,206.91
01/02/2016	€597,150.16	-€12,412.60	-€426,860.33
02/02/2016	€380,507.04	-€19,759.58	-€446,374.43
03/02/2016	€671,315.54	-€1,166.20	-€456,336.81
04/02/2016	€535,464.92	-€655.11	-€446,131.01
05/02/2016	€532,123.12	-€5,234.49	-€445,145.43
06/02/2016	€611,816.37	€3,469.28	-€397,155.42
07/02/2016	€572,044.92	-€15,082.20	-€383,519.56
08/02/2016	€346,687.44	-€10,745.66	-€444,677.22
09/02/2016	€692,018.61	€8,717.03	-€466,634.24
10/02/2016	€365,519.47	-€19,256.45	-€479,732.00
11/02/2016	€440,884.72	-€14,699.34	-€484,418.79
12/02/2016	€461,892.87	-€7,890.12	-€471,801.73
13/02/2016	€421,162.35	-€1,749.04	-€416,553.79
14/02/2016	€384,321.37	-€10,278.02	-€396,826.45
15/02/2016	€510,101.40	-€19,364.23	-€467,693.28
16/02/2016	€315,785.88	€2,093.47	-€457,602.33
17/02/2016	€626,657.48	-€23,789.13	-€480,813.42
18/02/2016	€560,025.64	-€12,342.48	-€475,118.65
19/02/2016	€504,377.27	-€10,985.27	-€446,158.68
20/02/2016	€554,774.66	-€4,450.23	-€397,610.37
21/02/2016	€633,946.93	-€5,175.90	-€383,845.09
22/02/2016	€241,660.16	-€8,119.39	-€455,503.59
23/02/2016	€448,946.36	-€15,627.46	-€471,687.19
24/02/2016	€555,735.22	-€27,144.18	-€480,968.29
25/02/2016	€314,829.66	-€28,796.52	-€485,404.36

26/02/2016	€398,677.03	-€17,958.54	-€466,615.98
27/02/2016	€421,234.85	-€4,172.24	-€429,974.96
28/02/2016	€745,089.34	-€19,065.57	-€408,933.48
29/02/2016	€553,599.98	-€16,799.69	-€450,927.54
01/03/2016	€465,209.57	-€12,894.41	-€439,436.86
02/03/2016	€341,005.28	€541.45	-€448,860.52
03/03/2016	€361,296.67	-€15,248.88	-€465,450.15
04/03/2016	€411,689.77	€2,635.53	-€450,744.99
05/03/2016	€504,505.73	€10,268.92	-€411,349.56
06/03/2016	€641,724.36	-€24,579.57	-€412,739.09
07/03/2016	€403,341.26	-€10,007.64	-€461,004.43
08/03/2016	€589,645.13	-€13,978.70	-€465,389.27
09/03/2016	€478,538.59	-€293.85	-€446,891.78
10/03/2016	€388,856.94	-€7,146.47	-€465,087.27
11/03/2016	€363,139.51	-€9,999.06	-€441,184.02
12/03/2016	€287,695.75	-€12,213.87	-€395,809.38
13/03/2016	€466,962.47	€1,463.46	-€384,948.98
14/03/2016	€602,953.47	€8,906.38	-€424,191.54
15/03/2016	€313,185.11	-€6,753.87	-€437,129.27
16/03/2016	€418,796.29	-€4,701.62	-€446,050.65
17/03/2016	€520,302.53	€7,998.09	-€395,444.27
18/03/2016	€488,526.91	-€14,066.07	-€435,207.31
19/03/2016	€651,409.40	€6,794.28	-€406,828.63
20/03/2016	€351,398.79	-€7,362.25	-€386,959.22
21/03/2016	€446,639.37	-€1,914.21	-€453,380.77
22/03/2016	€321,933.32	€931.08	-€461,357.85
23/03/2016	€401,613.29	-€15,495.07	-€447,516.93
24/03/2016	€358,356.98	-€17,265.89	-€432,664.12
25/03/2016	€429,281.20	€17,848.84	-€399,082.47
26/03/2016	€626,651.71	€9,317.35	-€375,996.87
27/03/2016	€422,089.59	€26,639.00	-€337,269.15
28/03/2016	€605,126.59	-€22,540.76	-€367,547.69
29/03/2016	€584,436.80	-€8,770.30	-€415,656.12
30/03/2016	€317,248.55	-€16,355.46	-€434,642.74
31/03/2016	€352,454.55	-€924.03	-€429,872.19
01/04/2016	€254,665.77	€19,410.52	-€418,172.85
02/04/2016	€273,567.32	-€1,407.33	-€404,833.08
03/04/2016	€160,794.82	-€2,047.92	-€385,435.83
04/04/2016	€416,599.77	-€9,183.59	-€439,040.73
05/04/2016	€250,111.93	-€5,506.80	-€433,512.72
06/04/2016	€336,670.55	€8,880.44	-€416,429.62
07/04/2016	€113,656.31	-€3,252.93	-€421,102.48
08/04/2016	€216,288.56	€3,619.93	-€434,709.43
09/04/2016	€120,423.37	€23,055.64	-€406,334.92
10/04/2016	€451,165.73	-€4,904.32	-€365,342.88
11/04/2016	€27,294.04	€5,442.30	-€433,170.38
12/04/2016	€381,420.09	-€13,852.41	-€448,891.24
13/04/2016	€285,398.63	-€11,332.70	-€445,360.38
14/04/2016	€355,975.07	-€54,196.75	-€437,602.19
15/04/2016	€386,518.01	€8,502.73	-€420,352.20
16/04/2016	€61,034.21	-€17,147.75	-€388,830.50
17/04/2016	€302,335.18	-€10,404.64	-€377,211.48
18/04/2016	€280,732.73	€1,419.88	-€421,534.12
19/04/2016	€270,332.02	€3,286.06	-€436,536.55

20/04/2016	€379,578.06	€1,507.75	-€419,156.47
21/04/2016	€537,074.46	€363.23	-€412,975.33
22/04/2016	€361,054.67	-€4,791.35	-€408,510.66
23/04/2016	€413,344.04	-€5,088.23	-€371,723.42
24/04/2016	€402,453.12	-€3,480.08	-€361,118.12
25/04/2016	€610,006.03	-€10,075.78	-€395,294.97
26/04/2016	€188,667.49	€6,807.41	-€407,028.35
27/04/2016	€543,611.51	€20,939.30	-€427,790.26
28/04/2016	€444,164.57	€2,513.65	-€425,418.50
29/04/2016	€467,497.39	-€643.14	-€415,553.12
30/04/2016	€367,553.26	€345.39	-€382,757.45
01/05/2016	€318,711.36	€46.79	-€348,183.04
02/05/2016	€265,639.36	€2,900.27	-€337,474.54
03/05/2016	€307,546.49	-€1,227.25	-€402,880.19
04/05/2016	€275,948.48	€5,228.96	-€398,811.00
05/05/2016	€224,908.34	€1,823.53	-€409,437.33
06/05/2016	€196,488.60	-€3,953.30	-€405,348.39
07/05/2016	€215,106.42	€13,786.76	-€372,905.56
08/05/2016	€338,654.44	-€5,241.44	-€343,553.41
09/05/2016	€376,377.42	€103.57	-€388,079.13
10/05/2016	€232,089.24	€1,162.31	-€410,277.96
11/05/2016	€94,819.65	-€9,693.39	-€407,183.40
12/05/2016	€207,182.84	-€5,530.62	-€399,631.40
13/05/2016	€268,281.83	€1,281.93	-€397,583.66
14/05/2016	€172,657.73	€2,100.06	-€358,479.25
15/05/2016	€270,385.84	€612.81	-€346,488.38
16/05/2016	€74,167.82	€5,878.68	-€400,481.38
17/05/2016	€206,529.16	€9,917.38	-€403,878.41
18/05/2016	€261,963.29	-€5,773.72	-€402,077.89
19/05/2016	€213,366.04	€6,115.62	-€393,020.28
20/05/2016	€406,247.83	-€5,794.20	-€390,136.77
21/05/2016	€415,353.52	-€1,181.85	-€357,519.37
22/05/2016	€416,802.08	€8,358.08	-€344,927.61
23/05/2016	€184,660.48	-€991.20	-€398,423.86
24/05/2016	€242,141.63	-€6,731.50	-€397,480.27
25/05/2016	€88,752.89	-€2,675.89	-€401,265.47
26/05/2016	€100,636.02	€12,891.89	-€418,400.89
27/05/2016	€296,388.97	-€15,542.96	-€405,625.74
28/05/2016	€173,729.31	€8,352.72	-€365,500.02
29/05/2016	€172,856.92	-€6,512.65	-€343,084.06
30/05/2016	€199,477.51	-€8,374.61	-€386,891.37
31/05/2016	€323,036.70	-€6,178.45	-€391,492.34
01/06/2016	€4,689.24	€21,790.77	-€395,637.98
02/06/2016	€170,104.82	-€5,399.31	-€392,535.51
03/06/2016	€203,007.45	€367.05	-€389,642.80
04/06/2016	€240,011.38	-€17,200.48	-€354,718.32
05/06/2016	€653,304.41	€2,066.37	-€333,219.66
06/06/2016	€425,126.49	€309.62	-€355,867.53
07/06/2016	€238,463.12	-€40,280.37	-€404,272.33
08/06/2016	€185,076.23	-€901.65	-€408,563.94
09/06/2016	€425,615.76	-€13,803.37	-€404,962.01
10/06/2016	€148,642.27	-€4,413.70	-€404,552.11
11/06/2016	€329,156.32	-€7,913.95	-€363,225.22
12/06/2016	€379,065.18	-€14,349.51	-€343,260.70

		,	
13/06/2016	€357,133.86	-€8,460.70	-€390,988.55
14/06/2016	€309,349.55	€2,481.91	-€396,200.68
15/06/2016	€214,221.50	-€7,224.12	-€390,391.93
16/06/2016	€295,339.25	-€871.57	-€384,521.87
17/06/2016	€241,160.11	-€1,546.15	-€373,856.93
18/06/2016	€117,814.56	€14,733.17	-€355,069.54
19/06/2016	€313,865.27	€2,866.81	-€331,565.47
20/06/2016	€291,348.26	€17,197.78	-€382,656.28
21/06/2016	€169,732.87	-€10,338.96	-€384,559.73
22/06/2016	€307,400.61	-€1,798.92	-€391,664.95
23/06/2016	€337,079.60	-€16,077.12	-€393,012.28
24/06/2016	€207,996.90	-€5,839.77	-€387,550.79
25/06/2016	€135,149.18	-€2,997.88	-€350,475.20
26/06/2016	€176,935.50	-€14,385.45	-€336,272.59
27/06/2016	€185,811.69	-€4,131.91	-€375,028.62
28/06/2016	€279,569.02	-€20,336.99	-€392,693.12
29/06/2016	€244,715.70	-€8,202.56	-€391,472.97
30/06/2016	€236,573.72	€707.67	-€390,718.11
01/07/2016	€263,258.14	-€5,365.54	-€373,468.31
02/07/2016	€340,595.24	€8,692.11	-€335,966.68
03/07/2016	€167,228.70	-€7,783.05	-€334,171.13
04/07/2016	€375,130.93	€11,589.89	-€385,944.30
05/07/2016	€92,747.57	€1,163.57	-€395,620.05
06/07/2016	€147,984.21	-€7,034.34	-€393,269.82
07/07/2016	€208,150.96	-€9,043.00	-€393,924.73
08/07/2016	€182,031.00	€13,276.10	-€379,568.72
09/07/2016	€379,953.41	€6,389.29	-€338,738.21
10/07/2016	€267,955.27	€227.24	-€322,179.36
11/07/2016	€141,886.59	€9,321.03	-€367,480.28
12/07/2016	€175,437.17	-€4,765.49	-€374,422.76
13/07/2016	€202,877.29	-€2,241.22	-€372,836.44
14/07/2016	€264,274.44	-€31,708.60	-€387,219.85
15/07/2016	€307,503.36	-€4,836.76	-€377,360.15
16/07/2016	€364,565.90	-€4,161.24	-€344,322.05
17/07/2016	€368,399.47	€5,116.09	-€330,568.36
18/07/2016	€355,505.26	-€7,068.38	-€395,231.09
19/07/2016	€411,112.41	-€5,131.01	-€402,752.76
20/07/2016	€300,071.19	-€2,619.84	-€400,350.02
21/07/2016	€257,030.71	-€9,300.19	-€393,946.54
22/07/2016	€254,718.41	-€9,619.42	-€392,681.20
23/07/2016	€357,003.52	-€12,401.34	-€355,221.88
24/07/2016	€338,443.20	-€10,498.34	-€333,466.63
25/07/2016	€385,234.24	€31,122.75	-€378,988.53
26/07/2016	€359,576.47	-€38,951.01	-€396,460.31
27/07/2016	€294,689.50	-€7,006.67	-€391,034.59
28/07/2016	€465,150.53	€1,066.59	-€393,061.01
29/07/2016	€328,667.28	-€7,586.59	-€382,316.19
30/07/2016	€301,028.00	-€2,388.87	-€349,806.58
31/07/2016	€331,573.26	€1,303.61	-€332,304.13
01/08/2016	€399,223.89	€16,483.76	-€347,367.21
02/08/2016	€624,360.98	-€21,253.96	-€381,282.40
03/08/2016	€263,317.40	-€4,625.88	-€366,522.98
04/09/2016	6102 207 42	€17,739.00	-€384,638.04
04/08/2016	€192,287.43	€17,739.00	-€364,036.04

06/08/2016	€246,123.42	-€10,662.09	-€342,649.64
07/08/2016	€391,567.29	€641.79	-€306,872.47
08/08/2016	€273,069.63	€3,407.73	-€363,284.20
09/08/2016	€330,370.89	-€3,197.14	-€381,487.63
10/08/2016	€200,168.91	-€6,308.95	-€389,680.64
11/08/2016	€292,688.05	€407.89	-€384,301.81
12/08/2016	€260,829.53	-€7,344.98	-€371,309.90
13/08/2016	€268,974.76	€32,773.27	-€352,806.11
14/08/2016	€431,542.64	-€13,323.61	-€349,024.05
15/08/2016	€378,628.14	-€15,530.77	-€380,419.59
16/08/2016	€372,006.79	-€4,470.19	-€388,154.52
17/08/2016	€340,339.32	-€8,000.69	-€410,218.27
18/08/2016	€257,096.17	-€11,876.52	-€409,825.51
19/08/2016	€326,748.71	€1,035.96	-€377,986.51
20/08/2016	€272,438.94	€34.05	-€349,892.92
21/08/2016	€379,308.45	€1,220.19	-€339,768.93
22/08/2016	€159,044.33	€1,578.27	-€393,387.08
23/08/2016	€333,525.54	-€57,181.11	-€415,831.20
24/08/2016	€220,320.68	€1,137.80	-€405,709.92
25/08/2016	€246,249.39	-€2,976.10	-€404,052.59
26/08/2016	€223,636.33	-€2,555.42	-€384,663.02
27/08/2016	€259,333.99	-€6,394.97	-€358,311.14
28/08/2016	€419,327.21	€3,809.93	-€341,441.34
29/08/2016	€277,848.83	-€10,980.65	-€389,632.95
30/08/2016	€279,448.64	-€4,703.15	-€389,797.08
31/08/2016	€348,860.02	-€35,514.19	-€394,911.57
			-

Table 20 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

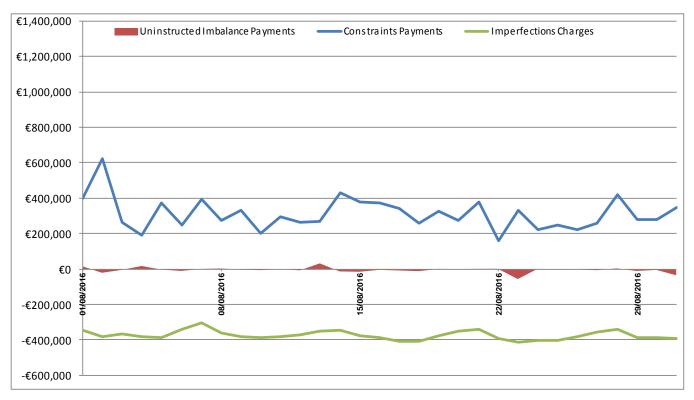


Figure 24 - Constraint Payments, Uninstructed Imbalance Payments, and Imperfections Charges

Week No	Make Whole
	Payments
38	€156,663.13
39	€99,549.05
40	€104,371.05
41	€9,305.58
42	€17,237.57
43	€18,614.74
44	€23,589.25
45	€5,513.20
46	€17,624.74
47	€27,403.03
48	€98,619.60
49	€82,787.86
50	€82,380.81
51	€68,751.08
52	€17,797.93
1	€71,533.60
2	€71,588.15
3	€22,455.89
4	€73,659.85
5	€44,834.21
6	€94,935.70
7	€71,991.91
8	€89,850.72
9	€187.41
10	€57,226.62
11	€24,353.24
12	€17,519.03
13	€18,413.95
14	€99,351.71
15	€67,571.67
16	€51,800.46
17	€44,459.11
18	€90,358.30
19	€18,448.89
20	€6,824.56
21	€131,010.25
22	€102,162.37
23	€125,869.44
24	€84,547.01
25	€111,163.70
26	€93,228.84
27	€120,087.37
28	€111,064.38
29	€87,089.42
30	€120,954.18
31	€48,552.68
32	€83,561.36
33	€100,430.47
34	€314,113.57

Table 21 - Make Whole Payments

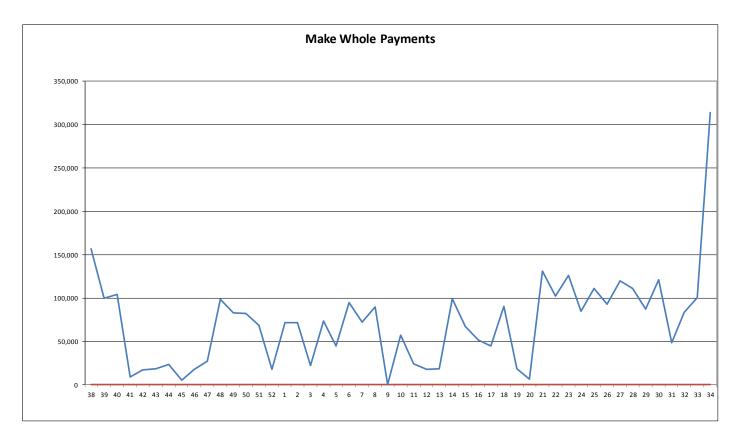


Figure 25 - Make Whole Payments

Week No	Testing Charges
38	-€12,688.71
39	-€1,257.57
40	-€19,812.53
41	-€21,021.55
42	-€10,419.94
43	-€13,069.61
44	-€16,635.14
45	-€16,770.11
46	-€27,151.66
47	€69,699.23
48	€0.00
49	-€13,909.92
50	-€740.68
51	-€353.00
52	-€456.00
1	-€470.00
2	-€582.00
3	€0.00
4	€0.00
5	€0.00
6	€0.00
7	-€4,381.00
8	-€313.00
9	€0.00
10	-€85,485.01

-€187,782.43
-€5,476.37
€0.00
-€904.60
-€95,270.20
€0.00
-€16,655.87
€0.00
€0.00
-€843.00
€0.00
€0.00
-€10,166.13
€0.00
€17,762.06
€0.00
-€789.58
-€134,653.05
-€87,783.63
-€175,504.34
-€2,364.71
€0.00
-€59,190.05
€0.00

Table 22 - Testing Charges

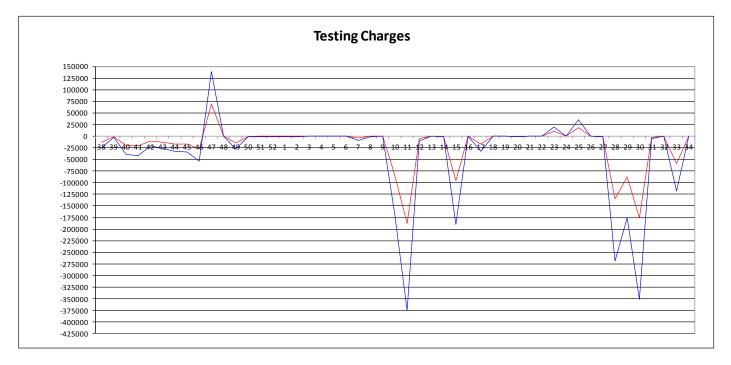


Figure 26 - Testing Charges

11. Appendix F: Default Commercial Offer Data Used

The table below lists for each unit the number of times in operations during August 2016 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_400021	I_ROIEWIC	29			29
PT_500021	I_NIMOYLE	7			7
PT_400163	I_ROIEWIC	91			91
PT_500031	I_NIMOYLE	31			31
PT_400157	I_ROIEWIC	31			31
PT_400096	I_ROIEWIC	93			93
PT_400113	I_ROIEWIC	14			14
PT_400115	I_ROIEWIC	31			31
PT_400037	I_ROIEWIC	28			28
PT_400168	I_ROIEWIC	69			69
PT_400108	I_ROIEWIC	64			64
PT_400171	I_ROIEWIC	39			39
PT_400164	I_ROIEWIC	28			28
PT_400170	I_ROIEWIC	46			46
PT_400030	I_ROIEWIC	31			31
PT_400099	I_ROIEWIC	45			45
PT_400024	GU_400120	31			31
PT_400024	GU_400121	31			31
PT_400030	GU_400180	35			35
PT_400030	GU_400181	37			37
PT_400030	GU_400182	37			37
PT_400030	GU_400183	37			37
PT_400030	GU_400200	34			34
PT_400030	GU_400201	37			37
PT_400030	GU_400202	35			35
PT_400030	GU_400203	37			37
PT_400030	GU_400210	34			34
PT_400030	GU_400211	34			34
PT_400030	GU_400220	34			34
PT_400030	GU_400221	34			34
PT_400030	GU_400240	34			34
PT_400030	GU_400250	34			34
PT_400030	GU_400251	34			34
PT_400030	GU_400252	34			34
PT_400030	GU_400260	34			34
PT_400030	GU_400270	34			34
PT_400030	GU_400271	34			34
PT_400030	GU_400272	34			34
PT_400030	GU_400280	34			34
PT_400030	GU_400281	34			34
PT_400030	GU_400290	34			34
PT_400030	GU_400300	35			35
PT_400030	GU_400311	35			35
PT_400030	GU_400324	35			35
PT_400030	GU_400325	35			35

PT_400030	PT 400030	GU 400360	34	34
PT_400030		_		
PT_400032				
PT_400034 GU_400940 29 29 29 29 29 PT_400034 GU_401090 29 29 29 29 29 29 29 29 29 29 29 29 29		_		
PT_400034		_		
PT_400034 GU_401440 29 29 29 29 29 PT_400035 GU_400800 56 56 56 56 56 56 56 56 56 56 56 56 56		_		
PT_400034		_		
PT_400035		_		
PT_400037 GU_400500 31 31 PT_400041 GU_400530 53 53 PT_400044 GU_400620 29 29 PT_400054 GU_400630 29 29 PT_400065 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_400762 31 31 PT_400064 GU_400762 31 31 PT_400064 GU_400770 31 31 PT_400064 GU_400770 31 31 PT_400064 GU_400780 31 31 PT_400064 GU_400781 31 31 PT_400065 GU_400781 31 31 PT_400075 GU_400830 64 64 PT_400077 GU_400830 64 64 PT_400078 GU_401010 31 31		_		
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PT_400054 GU_400620 29 29 PT_400055 GU_400630 29 29 PT_400064 GU_400750 31 31 PT_400064 GU_400751 31 31 PT_400064 GU_400752 31 31 PT_400064 GU_400763 31 31 PT_400064 GU_400770 31 31 PT_400064 GU_400770 31 31 PT_400064 GU_400770 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 64 64 PT_400076 GU_400930 64 64 PT_400077 GU_400930 64 64 PT_400078 GU_401010 31 31 PT_400078 GU_401101 31 31		_		
PT_400055		_		
PT_400064 GU_400750 31 31 31 31 31 31 31 3				
PT_400064 GU_400751 31 31 31 31 31 31 PT_400064 GU_400752 31 31 31 31 31 PT_400064 GU_400762 31 31 31 31 31 PT_400064 GU_400762 31 31 31 31 31 PT_400064 GU_400770 31 31 31 31 PT_400064 GU_400771 31 31 31 PT_400064 GU_400780 31 31 31 PT_400064 GU_400780 31 31 31 PT_400064 GU_400781 31 31 31 PT_400075 GU_400930 64 64 64 64 64 64 67 400077 GU_400950 29 29 PT_400078 GU_401010 31 31 31 31 PT_400078 GU_401010 31 31 31 31 PT_400078 GU_401101 31 31 31 31 PT_500024 GU_500040 36 PT_500024 GU_500040 36 PT_500024 GU_500131 86 86 86 PT_500027 GU_500131 86 86 86 PT_500027 GU_500131 86 86 86 PT_500034 GU_501350 33 33 33 33 33 33 33	_			
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PT_400064				
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 64 64 PT_400077 GU_400950 29 29 PT_400078 GU_401010 31 31 PT_400078 GU_401860 31 31 PT_500024 GU_500040 36 36 PT_500024 GU_500040 36 36 PT_500024 GU_500041 31 31 PT_500027 GU_500130 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_500140 86 86 PT_500027 GU_5001350 33 33 PT_500040 GU_500281 31 31 PT_500040 GU_500282 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 64 64 PT_400077 GU_400950 29 29 PT_400078 GU_401010 31 31 PT_400078 GU_401011 31 31 PT_400078 GU_401860 31 31 PT_500024 GU_500040 36 36 PT_500024 GU_500041 31 31 PT_500024 GU_500041 31 31 PT_500027 GU_500130 86 86 PT_500027 GU_500130 86 86 PT_500027 GU_500140 86 86 PT_500027 GU_500281 31 31 PT_500040 GU_500282 31 31 PT_500040 GU_500282 31 31		_		
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PT_400077 GU_400950 29 29 PT_400078 GU_401010 31 31 PT_400078 GU_401011 31 31 PT_400172 GU_401860 31 31 PT_500024 GU_500040 36 36 PT_500027 GU_500130 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_5001350 33 33 PT_500034 GU_501350 33 33 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_500822 31 31 PT_500045 GU_500823 31 31 PT_500045 GU_500823 31 31		_		
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PT_400078 GU_401011 31 31 PT_400172 GU_401860 31 31 PT_500024 GU_500040 36 36 PT_500024 GU_500041 31 31 PT_500027 GU_500130 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_500140 86 86 PT_500034 GU_501350 33 33 PT_500040 GU_501350 33 33 PT_500040 GU_500281 31 31 PT_500040 GU_500282 31 31 PT_500040 GU_500283 31 31 PT_500045 GU_500820 31 31 PT_500045 GU_500821 31 31 PT_500045 GU_500823 31 31 PT_500045 GU_500823 31 31 PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31				
PT_400172 GU_401860 31 31 PT_500024 GU_500040 36 36 PT_500024 GU_500041 31 31 PT_500027 GU_500130 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_500140 86 86 PT_500034 GU_501350 33 33 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_500823 31 31 PT_500045 GU_500823 31 31 PT_500045 GU_500823 31 31 PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31		_		
PT_500024 GU_500040 36 36 PT_500024 GU_500041 31 31 PT_500027 GU_500130 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_500140 86 86 PT_500034 GU_501350 33 33 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_500823 31 31 PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31 PT_500045 GU_500826 31 31		_		
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PT_500027 GU_500130 86 86 PT_500027 GU_500131 86 86 PT_500027 GU_500140 86 86 PT_500034 GU_501350 33 33 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_500046 GU_500825 31 31 PT_500048 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053				
PT_500027 GU_500131 86 86 PT_500027 GU_500140 86 86 PT_500034 GU_501350 33 33 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_500823 31 31 PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31 PT_500046 GU_500825 31 31 PT_500050 GU_501040 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29			86	86
PT_500027 GU_500140 86 86 PT_500034 GU_501350 33 33 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_500823 31 31 PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31 PT_500046 GU_500825 31 31 PT_500048 GU_500904 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29			86	
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_500824 31 31 PT_500045 GU_500825 31 31 PT_500045 GU_500825 31 31 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500027		86	86
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_500045 GU_500825 31 31 PT_500048 GU_500904 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31			33	33
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_500825 31 31 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500040	GU_500281	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 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500040	GU_500282	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 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500040	GU_500283	31	31
PT_500045 GU_500821 31 PT_500045 GU_500822 31 PT_500045 GU_500823 31 PT_500045 GU_500824 31 PT_500045 GU_500825 31 PT_500048 GU_500904 51 PT_500050 GU_501040 29 PT_500050 GU_501050 29 PT_500050 GU_501150 29 PT_500050 GU_501190 29 PT_500053 GU_501130 31	PT_500040	GU_500284	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 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500045	GU_500820	31	31
PT_500045 GU_500823 31 31 PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31 PT_500048 GU_500904 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500045	GU_500821	31	31
PT_500045 GU_500824 31 31 PT_500045 GU_500825 31 31 PT_500048 GU_500904 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500045	GU_500822	31	31
PT_500045 GU_500825 31 31 PT_500048 GU_500904 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500045	GU_500823	31	31
PT_500048 GU_500904 51 51 PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500045	GU_500824	31	31
PT_500050 GU_501040 29 29 PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500045	GU_500825	31	31
PT_500050 GU_501050 29 29 PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500048	GU_500904	51	51
PT_500050 GU_501150 29 29 PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500050	GU_501040	29	29
PT_500050 GU_501190 29 29 PT_500053 GU_501130 31 31	PT_500050	GU_501050	29	29
PT_500053 GU_501130 31 31	PT_500050	GU_501150	29	29
	PT_500050	GU_501190	29	29
PT_500066 GU_501210 29 29	PT_500053		31	31
	PT_500066	GU_501210	29	29

1		_		
PT_500073	GU_501230	5		5
PT_400138	DSU_401590	31		31
PT_400090	DSU_401610	31		31
PT_400124	DSU_401880	2		2
PT_400090	DSU_401620	31		31
PT_400116	DSU_401400	31		31
PT_400116	DSU_401870	9		9
PT_500098	DSU_501450	9		9
PT_400090	DSU_401270	31		31
PT_400106	DSU_401330	32		32
PT_400124	DSU_401490	30		30
PT_400021	GU_400021		31	31
PT_400021	GU_400050		31	31
PT_400021	GU_400060		31	31
PT 400021	GU 400070		31	31
PT 400021	GU_400080		31	31
PT_400021	GU 400591		31	31
PT 400021	GU 400600		31	31
PT_400021	GU_400910		31	31
PT 400021	GU 400920		31	31
PT 400021	GU 401080		31	31
PT 400021	GU 401380		31	31
PT 400021	GU 401600		31	31
PT_400021	GU 401640		31	31
PT_400025	GU_400130		31	31
PT_400032	GU_400430		2	2
PT_400034	GU_400940		2	2
PT_400034	GU_401090		2	2
PT_400034	GU_401440		2	2
PT_400034	GU_401680		2	2
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_400050	GU_401280		31	31
PT_400050	GU_401290		31	31
PT_400050	GU_401360		31	31
PT_400050	GU_401790		31	31
PT_400054	GU_400620		2	2
PT_400055	GU_400630		2	2
PT_400062	GU_400730		31	31
PT 400062	GU 400731		31	31
PT 400062	GU_400840		31	31
PT_400066	GU_401540		31	31
PT_400066	GU_401820		31	31
PT_400077	GU_400950		2	2
PT_400082	GU_401100		31	31
PT 400087	GU_401230		31	31
PT_400148	GU 401690		31	31
PT_400148	GU 401700		31	31
F1_400130	GU_401700		31	31

	Percentage	64.91%	0.00%	35.09%	100.00%
	Total	3884	0	2100	5984
PT_400133	DSU_401530			31	31
PT_500067	DSU_501380			31	31
PT_400111	DSU_401390			31	31
PT_400090	DSU_401800			31	31
PT_500078	DSU_501330			31	31
PT_400090	DSU_401850			31	31
PT_400124	DSU_401490			1	1
PT_400144	DSU_401660			31	31
PT_500089	GU_501360			31	31
PT_500074	GU_501250			31	31
PT_500073	GU_501230			27	27
PT_500066	GU_501210			2	2
PT_500062	GU_501180			31	31
PT_500061	GU_501170			31	31
PT_500050	GU_501190			2	2
PT_500050	GU_501150			2	2
PT_500050	GU_501050			2	2
PT_500050	GU_501040			2	2
PT_500047	GU_500790			31	31
PT_500044	GU_500720			31	31
PT_500039	GU_500270			31	31
PT_500032	GU_501300			31	31
PT_500032	GU_501290			31	31
PT_500032	GU_501280			31	31
PT_500032	GU_501120			31	31
PT_500032	GU_500211			31	31
PT_500021	GU_501160			31	31
PT_500021	GU_500740			31	31
PT_500021	GU_500010			31	31
PT_400162	GU_401830			31	31
PT_400152	GU_401760			31	31
PT_400152	GU_401750			31	31
PT_400152	GU_401740			31	31
PT_400152	GU_401730			31	31
PT_400152	GU_401720			31	31
PT_400152	GU_401710			31	31
PT_400151	GU_401780			31	31
PT 400151	GU_401770			31	31
PT 400151	GU 401770			21	

Table 23 – Commercial Offer Data Used

12. 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
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
100 24	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
may 24	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
Juli 24	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
301-14	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	£75,858,678.54	£17,424,467.63	£1,576,396.05	£255,748.90	£41,217.98	£1,835.23	£112,980.92	£0.00	£1,327.55	£123,147.19	£0.00	£0.00	73,064,976.28
Aug-14	NI	£20,792,697.59	£5,164,101.59	£404,571.34	£73,223.02	£16,729.14	£695.03	£40,446.87	£0.00	£491.99	£10.52	£0.00	£0.00	22,440,085.62
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
3eh-14	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
Oct-14	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
	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
Nov-14	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
	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
Dec-14	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
	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
Jan-15	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
	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
Feb-15	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
	ROI	£53,956,274.88	£21,836,040.18	£861,676.05	£453,661.43	£115,779.65	£2,416.32	£355,096.34	£39,172.70	£877.23	£111,462.50	£0.00	£0.00	77,732,457.28
Mar-15	NI	£22,615,725.41	£8,408,410.93	£207,225.41	£147,466.81	£46,471.14	£825.82	£39,513.02	£6,098.32	£183.02	£282.78	£0.00	£0.00	31,472,202.66
	ROI	£49,671,449.35	£18,463,469.38	£767,415.15	£442,875.61	£132,859.46	£2,617.91	£174,481.42	£24,018.61	£806.67	£34,066.85	£0.00	£0.00	69,714,060.41
Apr-15	NI	£20,444,248,38	£5.917.010.08	£191.002.36	£178.167.11	£60,451,34	£1,059,11	£38,565,73	£8.077.48	£245.07	£24,964.25	£0.00	£0.00	26,863,790.91
	ROI	£62,682,234.81	£19,502,808.85	£978,929.74	£496,789.41	£113,309.65	£2,668.35	£257,691.56	£37,913.64	£947.65	£105,628.08	£0.00	£0.00	84,178,921.74
May-15	NI	£20,656,049.28	£5.471.708.22	£941.978.73	£284.714.17	£81,721,34	£1,530.01	£28,297,30	£5,740.95	£255.12	£458.23	£0.00	£0.00	27,472,453.35
	ROI	£49.441.454.53	£18.011.748.07	£768,412.90	£525,988.89	£125.343.18	£3,068.91	£83,564,13	£14,743.93	£639.06	£24,047.90	£0.00	£0.00	68,999,011.50
Jun-15	NI	., ,	.,. ,		,	-,		,						
	ROI	£16,086,817.66 £60,081,065.67	£4,881,262.27 £18,106,345.49	£731,152.70 £938,580.42	£190,327.69 £392,863.94	£56,176.06 £100,250.95	£1,108.32 £2,281.34	£14,086.52 £70,409.41	£3,263.83 £14,571.40	£136.37 £801.22	£4.82 £3,383,812.96	£0.00	£0.00	21,964,336.24 83,090,982.80
Jul-15	NI	£20,399,899.80	£4,559,620.30	£901,179.27	£122,425.31	£34,196.36	£798.99	£13,983.16	£3,041.83	£170.87	£560,424.72	£0.00	£0.00	26,595,740.61
Aug-15	ROI	£78,361,586.44	£18,780,406.68	£706,070.38	£980,269,55	£57,624.58	£1,113,70	£78.106.89	£15,466.63	£704.85	£100,608.41	£0.00	£0.00	99,081,958.11
Aug-15	NI	£26,593,706.25	£4,803,877.25	£706,070.38 £717,392.01	£96,278.24	£20,145.75	£1,113.70 £293.79	£11,711.41	£2,659.00	£109.44	£1,579.59	£0.00	£0.00	32,247,752.73
Sep-15	ROI	£56,880,935.07	£19,007,006.26	£785,990.22	£310,026.85	£107,852.47	£1,796.61	£36,597.16	£9.587.72	£109.44 £443.17	£15,420.42	£0.00	£0.00	77,155,655.95
36h-13	NI	£16,638,373.40	£5,599,036.84	£750,313.33	£28,072.71	£9,405.58	£194.47	£6,674.12	£1,949.58	£443.17 £89.21	£1,839.74	£0.00	£0.00	23,035,948.98
Oct-15	ROI									£473.10	£1,839.74 £0.00	£0.00	£0.00	
001-15	NI	£44,227,777.74 £16,675,395.96	£22,236,309.33 £6,086,547.11	£1,235,987.38 £1,187,219.91	£320,699.87 £53,340.80	£111,578.50 £16,688.72	£2,310.47 £277.65	£168,670.97 £11,014.82	£16,768.91 £3,948.74	£76.07	£0.00	£0.00	£0.00	68,320,576.27 24,034,509.78
Nov-15	ROI											£0.00	£380.36	
WOA-12	NI	£56,463,736.52 £19,619,287.90	£23,128,442.30	£1,100,826.75 £256,488.48	£429,995.20 £118,896.22	£99,296.34 £40,962.87	£2,542.49 £778.31	£702,840.25 £24,801.93	£20,038.40 £11,150.14	£309.43 £150.06	£293,116.81 £21,408.98	£0.00	£380.36 £1.87	82,241,524.85 28,236,040.30
Dec-15	ROI		£8,142,113.54	£256,488.48 £1,227,682.68				£24,801.93 £244,831.00			£21,408.98 £0.00	£0.00	£1.87 £0.00	
Dec-12		£56,771,584.52	£26,115,101.51		£528,056.78	£108,604.95	£3,426.94		£43,714.70	£499.00				85,043,502.08
Jan. 16	NI	£18,807,275.81	£8,947,272.84	£1,177,606.04	£132,697.73	£37,389.03	£908.11	£23,859.97	£15,486.06	£141.18	£0.00	£0.00	£0.00	29,142,636.77
Jan-16	ROI	£58,962,181.52	£24,712,649.02	£1,489,145.25	£360,735.59	£112,295.73	£2,766.96	£446,172.64	£37,483.70	£461.80	£0.00	£0.00	£0.00	86,123,892.21
	NI	£22,884,292.07	£6,792,946.67	£1,439,182.95	£61,720.87	£33,725.86	£439.13	£13,953.72	£11,288.27	£91.07	£0.00	£0.00	£0.00	31,237,640.61
Feb-16	ROI	£44,227,777.74	£22,236,309.33	£1,235,987.38	£320,699.87	£111,578.50	£2,310.47	£168,670.97	£16,768.91	£473.10	£0.00	£0.00	£0.00	68,320,576.27
	NI	£16,675,395.96	£6,086,547.11	£1,187,219.91	£53,340.80	£16,688.72	£277.65	£11,014.82	£3,948.74	£76.07	£0.00	£0.00	£0.00	24,034,509.78
Mar-16	ROI	£46,479,736.23	£21,810,284.94	£1,247,077.11	£218,253.91	£0.00	£2,241.73	£325,512.38	£0.00	£184.01	£10,658.28	£0.00	£0.00	70,093,948.59
	NI	£18,169,780.86	£5,723,642.36	£307,019.09	£92,518.83	£0.00	£1,042.35	£18,464.14	£0.00	£90.30	£35.07	£0.00	£0.00	24,312,593.00
Apr-16	ROI	£49,184,916.98	£15,501,521.21	£1,127,381.20	£270,121.81	£95,679.82	£3,486.64	£68,851.15	£18,608.43	£470.47	£0.00	£0.00	£0.00	66,271,037.71
	NI	£17,362,464.69	£4,104,501.10	£265,764.31	£105,262.33	£39,607.51	£1,261.76	£60,590.82	£22,415.09	£387.37	£0.00	£0.00	£0.00	21,962,254.98
May-16	ROI	£49,184,916.98	£15,501,521.21	£1,127,381.20	£270,121.81	£95,679.82	£3,486.64	£68,851.15	£18,608.43	£470.47	£0.00	£0.00	£0.00	66,271,037.71
	NI	£17,362,464.69	£4,104,501.10	£265,764.31	£105,262.33	£39,607.51	£1,261.76	£60,590.82	£22,415.09	£387.37	£0.00	£0.00	£0.00	21,962,254.98
	ROI	£53,990,805.17	£17,305,691.08	£1,082,679.75	£206,642.80	£45,575.08	£1,900.74	£45,391.41	£12,311.23	£322.89	£0.00	£0.00	£0.00	72,691,320.15
Jun-16	NI	£13,463,141.18	£3,676,029.87	£272,060.88	£22,683.94	£6,912.45	£294.54	£2,906.60	£2,273.87	£18.25	£0.00	£0.00	£0.00	17,446,321.58
	ROI	£57,935,825.17	£17,094,463.29	£1,471,499.46	£416,561.74	£228,953.88	£5,030.22	£478,630.27	£28,077.61	£475.98	£105,568.09	£0.00	£0.00	77,765,085.71
Jul-16	NI	£21,413,999.73	£4,706,369.93	£356,309.07	£111,802.15	£87,327.04	£1,297.05	£47,648.29	£20,761.72	£299.44	£20,454.46	£0.00	£0.00	26,766,268.88
	ROI	£53,990,805.17	£17,305,691.08	£1,082,679.75	£206,642.80	£45,575.08	£1,900.74	£45,391.41	£12,311.23	£322.89	£0.00	£0.00	£0.00	72,691,320.15
Aug-16	NI	£13,463,141.18	£3,676,029.87	£272,060.88	£22,683.94	£6,912.45	£294.54	£2,906.60	£2,273.87	£18.25	£0.00	£0.00	£0.00	17,446,321.58

Table 24 – Total Charges by Month

Peb-14 ROI	0.00 €106,897,85 €0.00 €40,326,35 €0.00 €101,808,30 €0.00 €39,163,41 €0.00 €38,466,04 €0.00 €34,942,53 €0.00 €24,043,66 €0.00 €44,836,04 €0.00 €70,817,76 €0.00 €73,254,89 €0.00 €19,169,67 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €25,930,46 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €25,930,46 €0.00 €25,935,65 €0.00 €110,402,86 €0.00 €25,935,65 €0.00 €110,404,43 €0.00 €25,235,56 €0.00 €111,444,43 €0.00 €25,235,56 €0.00 €112,796,12 €0.00 €29,292,87 €0.00 €29,292,87 €0.00 €29,292,87 €0.00 €129,901,83 €0.00 €36,700,37	60.00 60.00	€3.55 €0.00 €0.00 €0.00 €9.581.32 €3.89 €10,805.33 €29.76 €0.00 €0.00 €0.00 €0.00 €0.00 €0.00 €0.00	€350.80 €960.40 €471.08 €1,783.33 €381.08 €1,110.17 €468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€9,737.45 €28,200.28 €13,760.80 €38,566.49 €9,188.57 €16,425.79 €13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05	€179,315.25 €127,303.70 €52,017.29 €259,726.57 €56,294.66 €249,029.58 €81,713.52 €106,227.35 €50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€214.26 €2,170.67 €408.65 €4,399.40 €2,138.60 €7,807.32 €999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€4,082.15 €60,397.08 €8,326.93 £147,627.43 €73,719.22 £210,307.65 €37,452.65 £121,415.36 €40,186.30 £82,858.43 £29,875.87 €42,797.07	€37,918.21 €259,644.98 €46,950.40 €549,302.08 €303,950.50 €652,683.44 €150,145.26 €424,333.36 €121,134.45 €326,631.36 €91,479.13	€10,347,544.45 €26,180,620.54 €9,292,032.85 €21,981,963.17 €8,979,409.85 €22,405,052.21 €7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	C29,747,186.53 C75,149,006.14 C29,749,446.42 665,482,679.64 C25,517,456.45 668,502,489.93 C27,515,054.00 C53,863,542.49 C18,301,490.12 C50,929,138.15	NI ROI NI ROI NI ROI NI ROI NI ROI NI ROI NI	Mar-14 Apr-14 May-14
Ni C2,721,86.53 (03,37,544.55 (37,98.2) (4,02.15 C13.26 (17),115.75 (17),76 (36.00 C13.55 (0.00 C10.00 C10.	0.00 €101,808,30 €101,808,30 €10.00 €39,163,41 €10.00 €38,466,04 €10.00 €34,942,53 €10.00 €34,942,53 €10.00 €34,836,04 €10.00 €20,054,88 €10.00 €20,054,88 €10.00 €20,054,88 €10.00 €20,817,65 €10.00 €39,255,81 €10.00 €39,255,81 €10.00 €39,255,81 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,411,18 €10.00 €30,444,43 €10.00 €30,444,43 €10.00 €30,444,43 €10.00 €30,444,43 €10.00 €30,545,45 €10.00 €30,545,45 €10.00 €30,545,45 €10.00 €30,545,45 €10.00 €30,541,73 €30,541,73 €3	60.00 60.00	€0.00 €0.00 €0.00 €9,581.32 €29.76 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€960.40 €471.08 €1,783.33 €381.08 €1,110.17 €468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €699.28	€28,200.28 €13,760.80 €38,566.49 €9,188.57 €16,425.79 €13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €11,845.94 €13,672.05 €9,519.24	£127,303.70 £52,017.29 £259,726.57 £56,294.66 £249,029.58 £81,713.52 £106,227.35 £50,770.87 £123,130.56 £67,310.27 £125,676.42 £54,424.97 £73,033.72 £41,404.59	€2,170.67 €408.65 €4,399.40 €2,138.60 €7,807.32 €999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€60,397.08 €3,326.93 €147,627.43 €73,719.22 €210,307.65 €37,452.65 €121,415.36 €40,186.30 €82,858.43 £29,875.87 €42,797.07	€259,644.98 €46,950.40 €549,302.08 €303,950.50 €652,683.44 €150,145.26 €424,333.36 €121,134.45 €326,631.36	€26,180,620.54 €9,292,032.85 €21,981,963.17 €8,979,409.88 €22,405,052.21 €7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	€75,149,006.14	ROI NI ROI NI ROI NI ROI NI ROI	Mar-14 Apr-14 May-14
No. C2,749,466.12 C2,226,285 66,590.40 C3,126.31 C498.65 C3,207.29 C1,760.8 C0.0 C0.0 C0.0 C0.0 C3,007.40 C3,97.24 C3,98.04 C39,79.24 C3,98.04 C39,79.24 C3,98.04 C39,79.24 C3,98.04 C39,79.24 C3,98.04 C39,79.24 C3,98.04 C39,79.24 C3,98.04 C3,	60.00	60.00 60.00	€0.00 €0.00 €9,581.32 €3.89 €10,805.33 €29.76 €0.00 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00 €0.00	€471.08 €1,783.33 €381.08 €1,110.17 €468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€13,760.80 €38,566.49 €9.188.57 €16,425.79 €13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05 €9,519.24	€52,017.29 £259,726.57 £56,294.66 £249,029.58 £81,713.52 £06,227.35 £50,770.87 £123,130.56 £67,310.27 £125,676.42 £54,424.97 £73,033.72 £41,404.59	€408.65 €4,399.40 €2,138.60 €7,807.32 €999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€8,326,93 €147,627.43 €73,719,22 €210,307.65 €37,452.65 €121,415.36 €40,186.30 €82,858.43 €29,875.87 €42,797.07	€46,950.40 €549,302.08 €303,950.50 €652,683.44 €150,145.26 €424,333.36 €121,134.45 €326,631.36 €91,479.13	€9,292,032.85 €21,981,963.17 €8,979,409.88 €22,405,052.21 €7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	€29,749,446.42 €65,482,679.64 €25,517,456.45 €68,502,489.93 €27,515,054.00 €53,863,542.49 €18,301,490.12 €50,929,138.15	NI ROI NI ROI NI ROI NI ROI NI ROI NI	Apr-14 May-14
Apr.14 ROI 65,842,795.6 61,281,953.17 649,302.08 643,777.2 64,394.0 62,975.7 631.00 60.00	€0.00 €88,466,04 €0.00 €34,942,53 €0.00 €32,054,48 €0.00 €34,836,04 €0.00 €70,817,76 €0.00 €73,254,88 €0.00 €19,169,67 €0.00 €32,255,81 €0.00 €32,255,81 €0.00 €31,248,55 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €24,013,02,80 €0.00 €24,409,51 €0.00 €24,409,51 €0.00 €24,409,51 €0.00 €24,409,51 €0.00 €25,253,54 €0.00 €110,444,43 €0.00 €25,253,55 €0.00 €110,444,43 €0.00 €25,253,55 €0.00 €110,444,43 €0.00 €25,253,55 €0.00 €22,03,65 €0.00 €22,03,65	60.00 60.00	€0.00 €0.00 €9,581.32 €3.89 €10,805.33 €29.76 €0.00 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€1,783.33 €381.08 €1,110.17 €468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€38,566.49 €9,188.57 €16,425.79 €13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05 €9,519.24	€259,726.57 €56,294.66 €249,029.58 €81,713.52 €106,227.35 €50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€4,399.40 €2,138.60 €7,807.32 €999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€147,627.43 €73,719.22 €210,307.65 €37,452.65 €121,415.36 €40,186.30 €82,858.43 €29,875.87 €42,797.07	€549,302.08 €303,950.50 €652,683.44 €150,145.26 €424,333.36 €121,134.45 €326,631.36 €91,479.13	€21,981,963.17 €8,979,409.88 €22,405,052.21 €7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	€65,482,679.64 €25,517,456.45 €68,502,489.93 €27,515,054.00 €53,863,542.49 €18,301,490.12 €50,929,138.15	ROI NI ROI NI ROI NI ROI NI	May-14
May 14 N	60.00 634,942,53 60.00 620,054,48 60.00 620,054,48 60.00 670,817,66 60.00 625,990,46 60.00 673,990,46 60.00 673,254,89 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,255,81 60.00 673,24,409,51 60.00 673,255,255,55 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,255,255 60.00 673,2	60.00 60.00	€0.00 €9.581.32 €10,805.33 €29.76 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€381.08 €1,110.17 €468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€9,188.57 €16,425.79 €13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05	€56,294.66 €249,029.58 €81,713.52 €106,227.35 €50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€2,138.60 €7,807.32 €999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€73,719.22 €210,307.65 €37,452.65 €121,415.36 €40,186.30 €82,858.43 €29,875.87 €42,797.07	€303,950.50 €652,683.44 €150,145.26 €424,333.36 €121,134.45 €326,631.36 €91,479.13	€8,979,409.88 €22,405,052.21 €7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	€25,517,456.45 €68,502,489.93 €27,515,054.00 €53,863,542.49 €18,301,490.12 €50,929,138.15	NI ROI NI ROI NI ROI NI	May-14
NI	60.00 622,054,48 60.00 634,836,04 60.00 670,817,65 60.00 670,817,65 60.00 673,254,89 60.00 633,255,81 60.00 633,255,81 60.00 624,011,18 60.00 624,011,302,80 60.00 6101,302,80 60.00 624,049,51 60.00 624,049,51 60.00 624,049,51 60.00 625,253,54 60.00 6112,796,12 60.00 6112,796,12 60.00 622,22,87 60.00 622,92,87 60.00 622,92,87 60.00 622,92,87 60.00 623,941,73	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€9,581.32 €3.89 €10,805.33 €29.76 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€1,110.17 €468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €609.28 €1,313.25 €498.29	€16,425.79 €13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05 €9,519.24	€249,029.58 €81,713.52 €106,227.35 €50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€7,807.32 €999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€210,307.65 €37,452.65 €121,415.36 €40,186.30 €82,858.43 €29,875.87 €42,797.07	€652,683.44 €150,145.26 €424,333.36 €121,134.45 €326,631.36 €91,479.13	€22,405,052.21 €7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	€68,502,489.93 €27,515,054.00 €53,863,542.49 €18,301,490.12 €50,929,138.15	ROI NI ROI NI ROI NI	May-14
May-14 NI	60.00 €34,836,04 60.00 €70,817,76 60.00 €25,990,46 60.00 €37,254,89 60.00 €19,169,67 60.00 €33,255,81 60.00 €31,248,75 60.00 €31,487,50 60.00 €24,011,18 60.00 €24,013,02,80 60.00 €24,03,65 60.00 €24,049,51 60.00 €24,049,51 60.00 €22,043,65 60.00 €22,043,65 60.00 €22,043,65 60.00 €22,03,65 60.00 €22,03,65 60.00 €22,03,65 60.00 €22,03,65 60.00 €22,25,25,56 60.00 €112,796,12 60.00 €29,22,87 60.00 €22,92,87 60.00 €25,93,55	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€3.89 €10,805.33 €29.76 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00	6468.77 €1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€13,718.04 €17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05	€81,713.52 €106,227.35 €50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€999.79 €4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€37,452.65 €121,415.36 €40,186.30 €82,858.43 €29,875.87 €42,797.07	€150,145.26 €424,333.36 €121,134.45 €326,631.36 €91,479.13	€7,036,489.15 €16,268,861.66 €7,464,864.99 €21,772,067.06	€27,515,054.00 €53,863,542.49 €18,301,490.12 €50,929,138.15	NI ROI NI ROI NI	
No.14 ROI G3.88,15.42 G1.628,88.16 6424,333.36 C12,415.56 64,265.56 C10,027.25 C17,336.51 C1,014.65 C10.803.31 C10.00 Inv.	60.00 €70,817,76 60.00 €25,990,46 60.00 €33,255,89 60.00 €33,255,81 60.00 €34,255,81 60.00 €24,011,18 60.00 €24,011,18 60.00 €31,448,79 60.00 €101,302,80 60.00 €24,409,51 60.00 €26,034,85 60.00 €22,034,65 60.00 €110,444,43 60.00 €25,253,54 60.00 €112,796,12 60.00 €29,22,87 60.00 €129,901,38	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€10,805.33 €29.76 €0.00 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€1,014.63 €415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€17,318.53 €10,564.39 €17,118.42 €7,807.37 €0.00 €11,845.94 €13,672.05 €9,519.24	€106,227.35 €50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€4,245.54 €1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€121,415.36 €40,186.30 €82,858.43 €29,875.87 €42,797.07	€424,333.36 €121,134.45 €326,631.36 €91,479.13	€16,268,861.66 €7,464,864.99 €21,772,067.06	€53,863,542.49 €18,301,490.12 €50,929,138.15	ROI NI ROI NI	Jun-14
NI	€0.00 €25,99,46 €0.00 €73,254,89 €0.00 €73,254,89 €0.00 €93,255,81 €0.00 €24,011,18 €0.00 €24,011,18 €0.00 €10,302,80 €0.00 €101,302,80 €0.00 €24,409,51 €0.00 €28,034,85 €0.00 €22,043,65 €0.00 €110,444,43 €0.00 €25,253,54 €0.00 €112,796,12 €0.00 €29,292,87 €0.00 €29,901,83	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€29.76 €0.00 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€415.66 €1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€10,564.39 €17,118.42 €7,807.37 €0.00 €11,845.94 €13,672.05 €9,519.24	€50,770.87 €123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€1,005.32 €2,938.18 €813.16 €2,738.01 €863.74	€40,186.30 €82,858.43 €29,875.87 €42,797.07	€121,134.45 €326,631.36 €91,479.13	€7,464,864.99 €21,772,067.06	€18,301,490.12 €50,929,138.15	NI ROI NI	Jun-14
	60.00 673,254,89 60.00 619,169,67 60.00 629,155,81 60.00 624,011,18 60.00 621,448,59 60.00 610,302,80 60.00 624,409,51 60.00 624,409,51 60.00 622,439 60.00 622,043,65 60.00 622,043,65 60.00 6110,444,43 60.00 625,253,54 60.00 6112,796,12 60.00 629,292,87 60.00 629,932,87 60.00 635,941,35	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€0.00 €0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€1,016.51 €427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€17,118.42 €7,807.37 €0.00 €0.00 €11,845.94 €13,672.05 €9,519.24	€123,130.56 €67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€2,938.18 €813.16 €2,738.01 €863.74	€82,858.43 €29,875.87 €42,797.07	€326,631.36 €91,479.13	€21,772,067.06	€50,929,138.15	ROI NI	1
Aug-14 NI	60.00 €19,169,67 60.00 €32,255,81 60.00 €24,011,18 60.00 €24,011,18 60.00 €11,484,59 60.00 €101,302,80 60.00 €24,409,51 60.00 €24,409,51 60.00 €24,409,51 60.00 €22,043,65 60.00 €110,444,43 60.00 €25,253,54 60.00 €112,796,12 60.00 €29,22,87 60.00 €129,901,38	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€0.00 €29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€427.29 €1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€7,807.37 €0.00 €0.00 €11,845.94 €13,672.05 €9,519.24	€67,310.27 €125,676.42 €54,424.97 €73,033.72 €41,404.59	€813.16 €2,738.01 €863.74	€29,875.87 €42,797.07	€91,479.13			NI	
Aug-14 NI	0.00	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€29.36 €7.43 €0.00 €0.00 €0.00 €0.00	€1,327.83 €488.54 €728.13 €509.28 €1,313.25 €498.29	€0.00 €0.00 €11,845.94 €13,672.05 €9,519.24	€125,676.42 €54,424.97 €73,033.72 €41,404.59	€2,738.01 €863.74	€42,797.07		€6.035.816.09			Jul-14
NI	60.00 €24,011,18 60.00 €91,448,59 60.00 €18,134,97 60.00 €101,302,80 60.00 €24,409,51 60.00 €24,049,51 60.00 €22,043,55 60.00 €110,444,43 60.00 €112,756,12 60.00 €122,932,87 60.00 €29,932,87 60.00 €35,941,33	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	€7.43 €0.00 €0.00 €0.00 €0.00 €0.00	€488.54 €728.13 €509.28 €1,313.25 €498.29	€0.00 €11,845.94 €13,672.05 €9,519.24	€54,424.97 €73,033.72 €41,404.59	€863.74						
Sep-14 NI C2,272,153.08 C3,742,482.51 C25,157.09 C25,242.88 C3,377.33 C7,303.72 C11,845.94 C728.13 C0.00	€0.00 €91,448,59 €0.00 €28,134,97 €0.00 €101,302,80 €0.00 €24,409,51 €0.00 €22,043,65 €0.00 €110,444,43 €0.00 €25,235,54 €0.00 €112,796,12 €0.00 €29,22,87 €0.00 €29,924,87 €0.00 €29,941,73	€0.00 €0.00 €0.00 €0.00 €0.00 €0.00 €0.00 €0.00	€0.00 €0.00 €0.00 €0.00	€728.13 €509.28 €1,313.25 €498.29	€11,845.94 €13,672.05 €9,519.24	€73,033.72 €41,404.59							Aug-14
No.	€0.00 €28,134,97 €0.00 €101,302,80 €0.00 €24,409,51 €0.00 €86,096,68 €0.00 €11,0444,43 €0.00 €25,233,54 €0.00 €112,796,12 €0.00 €29,22,87 €0.00 €29,924,87 €0.00 €29,924,87	€0.00 €0.00 €0.00 €0.00 €0.00 €0.00 €0.00	€0.00 €0.00 €0.00	€509.28 €1,313.25 €498.29	€13,672.05 €9,519.24	€41,404.59	€3,3//.33						
Coc.14 NI	60.00 €101,302,80 60.00 €24,409,51 60.00 €26,6096,58 60.00 €22,043,65 60.00 €110,444,43 60.00 €12,525,54 60.00 €112,796,12 60.00 €29,292,87 60.00 €29,901,83 60.00 €35,941,73	€0.00 €0.00 €0.00 €0.00 €0.00 €0.00	€0.00 €0.00 €0.00	€1,313.25 €498.29	€9,519.24		0747.00						Sep-14
Nov-14 NO	€0.00 €24,409,51 €0.00 €86,096,85 €0.00 €110,444,43 €0.00 €25,253,54 €0.00 €112,796,12 €0.00 €29,292,87 €0.00 €129,901,83 €0.00 €35,941,73	€0.00 €0.00 €0.00 €0.00 €0.00	€0.00 €0.00	€498.29									
Nov-14 NO	60.00 686,096,85 60.00 622,043,65 60.00 6110,444,43 60.00 625,233,54 60.00 6112,796,12 60.00 629,292,87 60.00 6129,901,83 60.00 635,941,83	€0.00 €0.00 €0.00	€0.00		€6,422.11								Oct-14
NOV-14 NI C14,616,605.70 (7,312,194.38 (S0,960.79) (18,887.71) (6553.20 (37,498.77) (6,592.72 (254.29) (0.00) (0.0	60.00 622,043,65 60.00 6110,444,43 60.00 625,253,54 60.00 6112,796,12 60.00 629,292,87 60.00 6129,901,83 60.00 635,941,73	€0.00 €0.00 €0.00			C22 C0C C7								
Dec-14 ROI C79,262,340.64 C30,252,803.13 C636,211.01 C143,171.30 C7,087.15 C116,495.94 C25,330.11 C995.97 C0.00 C0.00 C0.00	€0.00 €110,444,43 €0.00 €25,253,54 €0.00 €112,796,12 €0.00 €29,292,87 €0.00 €129,901,38 €0.00 €35,941,73	€0.00 €0.00	€0.00										Nov-14
Dec-14 NI	€0.00 €25,253,54 €0.00 €112,796,12 €0.00 €29,292,67 €0.00 €129,901,83 €0.00 €35,941,73	€0.00	60.00										
Jan-15	€0.00 €112,796,12 €0.00 €29,292,87 €0.00 €129,901,83 €0.00 €35,941,73												Dec-14
NI C21,735,748.95 C7,476,289.80 C38,275.71 C8,505.48 C324.11 C25,331.16 C7,456.18 C248.46 C0.00 C691.42	€0.00 €29,292,87 €0.00 €129,901,83 €0.00 €35,941,73												
Feb-15 ROI \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	€0.00 €129,901,83 €0.00 €35,941,73	•					.,		, .			_	Jan-15
Feb-15 NI	€0.00 €35,941,73												
Mar-15 ROI							-					_	Feb-15
NI C18,497,389.79 C7,572,263.19 C147,525.82 C46,556.55 C825.97 C19,215.14 C8,635.89 C182.86 C726.16 C0.00													
Apr-15 ROI	€0.00 €26,293,32												Mar-15
NI £14,229,748.35 £5,312,669.68 £178,040.01 £60,667.89 £1,059.24 £28,971.47 £8,624.89 £241.56 £20,785.23 £0.00													
May-15 ROI £67,111,651.41 £19,797,771.76 £51,325.57 £496,344.48 £113,479.16 £2,634.87 £257,691.56 £32,517.87 £947.37 £0.00	£0.00 €75,553,10 £0.00 €19,840,80												Apr-15
NI	£0.00 €19,840,80		-,		-,-	-,-	,	,	-,				
NI C10,536,540.86 C4,561,917.57 C13,669.46 C190,224.00 C56,986.34 C1,109.52 C14,086.52 C3,197.29 C136.59 C0.00	£0.00 €19,923,10												May-15
NI C10,535,540.86 C4,561,917.57 C13,069.46 C190,224.00 C56,986.34 -C1,109.52 C14,086.52 C3,197.29 C136.59 C0.00	€0.00 €71,652,08								_			_	
ROI	€0.00 €15,375,04				,	. ,	,	,	,.	, .,	,,	_	Jun-15
NI C12,711,689.30 C4,703,936.76 C13,498.87 C121,756.24 C35,884.73 C799.78 C13,983.16 C3,045.41 C170.96 C0.00	€0.00 €82,020,52												
Aug-15 ROI €78,593,341.57 €17,976,726.62 €1,941.74 €806,815.82 €62,841.79 €1,062.49 €78,106.89 €15,446.53 €704.90 €0.00 NI €18,174,076.35 €3,922,403.96 €13,263.37 €191,650.14 €15,985.64 -€294.74 €11,711.41 €2,643.17 €109.50 €0.00 Sep-15 NI €13,294.943.47 €48,776.08 €30,6959.54 €78,980.31 €1,722.88 €36,597.16 €9,593.94 €440.27 €0.00 NI €12,814,817.71 €5,453,049.86 €13,099.19 €28,119.15 €30,434.20 €195.13 €6,674.12 €1,961.83 €89.22 €0.00 Oct-15 ROI €45,263,558.04 €22,785,032.30 €71,204.73 €469,504.52 €120,827.10 €2,288.60 €168,670.97 €17,161.82 €409.35 €0.00 No-15 ROI €45,263,558.04 €22,785,032.30 €71,204.73 €469,504.52 €120,827.10 €2,288.60 €168,670.97 €17,161.82 €409.35 €0.00 No-15 ROI €59,72	€0.00 €17,603,16												Jul-15
Aug-15	€0.00 €97,536,98												
Sep-15 ROI €53,901,821.24 €19,234,943.47 €48,776.08 €306,959.54 €78,980.31 €1,722.88 €36,597.16 €9,593.94 €440.27 €0.00 NI €12,814,817.71 €5,453,049.86 €13,099.19 €28,119.15 €30,434.20 €195.13 €6,674.12 €1,961.83 €89.22 €0.00 Oct-15 ROI €45,263,558.04 €22,785,032.30 €71,204.73 €469,594.52 €120,827.10 €2,298.60 €168,670.97 €17,161.82 €409.35 €0.00 NI €16,138,572.90 €5,672,214.93 €22,437.26 €24,123.83 €9,213.97 −275.84 €11,014.82 €3,591.14 €59.13 €0.00 Nov-15 ROI €9,724,442.55 €24,802,345.08 €433,219.82 €10,066.78 €2,695.40 €76,939.05 €22,197.47 €318.32 €37,920.24 €0.00 NI €17,210,572.00 €7,020,973.74 €117,530.15 €40,056.46 €765.32 €30,378.43 €9,648.77 €169.03 €1,973.04 €0.00	€0.00 €23,801,54												Aug-15
NI	€0.00 €73,619,83												
Oct-15 ROI €45,263,558.04 €22,785,032.30 €71,204.73 €469,504.52 €120,827.10 €2,298.60 €168,670.97 €17,161.82 €409.35 €0.00 NI €16,138,572.90 €5,672,214.93 €22,437.26 €24,123.83 €9,213.97 -€275.84 €11,014.82 €3,591.14 €59.13 €0.00 Nov-15 NI €59,724.442.55 €24,802,345.08 €433,219.82 €100,060.78 €2,695.40 €76,939.05 €22,197.47 €318.32 €37,902.04 €0.00 NI €17,210,572.00 €7,020,973.74 €117,530.15 €40,056.46 €765.32 €30,378.43 €9,684.77 €169.03 €1,973.04 €0.00	€0.00 €18,348,05												Sep-15
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	€0.00 €68,898,66												
Nov-15 ROI	€0.00 €21,880,95												Oct-15
NI €17,210,572.00 €7,020,973.74 €117,530.15 €40,056.46 €765.32 €30,378.43 €9,648.77 €169.03 €1,973.04 €0.00	€372.94 €85,201,05												
	€0.00 €24,432,06						-						Nov-15
ROI €59,375,497.41 €26,508,955.84 €71,188.34 €529,556.57 €108.617.22 €3.421.21 €24.831.00 €55.957.02 €455.17 €0.00	€0.00 €86,898,47	€0.00	€455.17	€55,957.02	€244,831.00	€3,421.21	€108,617.22	€529,556.57	€71,188.34	€26,508,955.84	€59,375,497.41	ROI	
Dec-15 NI \$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	€0.00 €26,273,93												Dec-15
POI 652 703 601 66 655 688 303 77 671 105 77 6374 077 81 6131 834 36 62 764 00 644 6172 64 641 361 35 630 53 60 00	€0.00 €89,449,79											ROI	
Jan-16 NI ©21,337,445.48 €6,172,081.95 €21,233.47 €63,300.69 €26,884.30 €-439.62 €13,953.72 €8,383.76 €72.48 €0.00	€0.00 €27,692,91												Jan-16
POI 6/5 763 558 M 622 785 032 30 671 204 73 6/60 504 52 612 877 10 62 208 60 6168 670 97 617 161 82 6400 35 60 00	€0.00 €68,898,66	€0.00	€409.35		€168,670.97	€2,298.60			€71,204.73			ROI	
Feb-16 NI €16,138,572.90 €5,672,214.93 €22,437.26 €24,123.83 €9,213.97 €-275.84 €11,014.82 €3,591.14 €59.13 €0.00	€0.00 €21,880,95	€0.00	€59.13	€3,591.14	€11,014.82	-€275.84	€9,213.97	€24,123.83	€22,437.26	€5,672,214.93	€16,138,572.90	NI	Feb-16
POT 545 576 732 11 531 730 576 53 575 054 05 50 00 53 313 11 534 317 00 50 00 5140 55 5104 030 14 50 00	€69.37 €67,704,89											ROI	
Mar-16 NI 613,507,533.11 €21,723,02.02 €23,597.29 €0.00 €2,233.11 €39,227.19 €0.00 €2,233.11 €39,227.19 €0.00 €355.70 €16,666.86 €0.00 €79.45 €2.26 €0.00	€20.36 €23,746,98	€0.00	€2.26	€79.45	€0.00	€16,666.86	€556.70	€0.00	€92,747.29	€5,776,150.05	€17,860,759.81	NI	Iviar-16
ROI €42,783,609.22 €14,666,602.66 €270,868.61 €95,779.49 €3,486.64 €70,280.71 €18,875.44 €440.06 €0.00 €0.00	€0.00 €57,909,94	€0.00	€0.00	€440.06	€18,875.44	€70,280.71	€3,486.64	€95,779.49	€270,868.61	€14,666,602.66	€42,783,609.22	ROI	446
Apr-16 NI C17,393,085.95 (47,754.09 £105,175.58 €39,673.48) €3,673.48 €30,365 €0.00 €0.00	€0.00 €22,370,76	€0.00	€0.00	€380.36								NI	Apr-16
ROI €42,783,609.22 €14,666,602.66 €270,868.61 €95,779.49 €3,486.64 €70,280.71 €18,875.44 €440.06 €0.00 €0.00	€0.00 €57,909,94											ROI	
May-16 NI €17,390,686.96 €4,751,740.09 €105,176.58 €39,633.85 €1,261.80 €59,561.31 €22,324.84 €380.36 €0.00 €0.00													May-16
ROI €47,925,137.80 €17,191,335.52 €205,102.11 €45,376.26 €1,900.83 €46,132.09 €12,064.34 €323.00 €0.00 €0.00	€0.00 €22,370,76	€0.00	€0.00	€323.00	€12,064.34	€46,132.09	€1,900.83	€45,376.26	€205,102.11	€17,191,335.52	€47,925,137.80	ROI	
Jun-16 NI €13,904,887.07 €3,784,287.20 €26,983.41 €6,959.89 €2,94.55 €2,874.89 €2,261.38 €18.45 €0.00 €0.00	€0.00 €22,370,76 €0.00 €65,427,37	€0.00	€0.00	€18.45	€2,261.38	€2,874.89	€294.55	€6,959.89	€26,983.41	€3,784,287.20	€13,904,887.07	NI	Jun-16
ROI €53,840,170.28 €17,104,842.75 €415,112.37 €247,294.27 €5,027.94 €81,626.06 €27,799.39 €410.18 €208,424.28 €0.00		€0.00	€208,424.28	€410.18	€27,799.39	€81,626.06	€5,027.94	€247,294.27	€415,112.37			ROI	
Jul-16 NI €20,282,958.20 €4,658,773.71 €111,871.11 €72,753.11 €1,297.25 €52,180.96 €20,969.56 €283.82 €27,450.94 €0.00	€0.00 €65,427,37		€27,450.94	€283.82	€20,969.56	€52,180.96	€1,297.25	€72,753.11	€111,871.11	€4,658,773.71		NI	Jul-16
ROI €47,925,137.80 €17,191,335.52 €205,102.11 €45,376.26 €1,900.83 €46,132.09 €12,064.34 €323.00 €0.00 €0.00	€0.00 €65,427,37 €0.00 €17,728,56			€323.00		€46,132.09	€1,900.83				€47,925,137.80	ROI	
Aug-16 NI €13,904,887.07 €3,784,287.20 €26,983.41 €6,959.89 €2,94.55 €2,874.89 €2,261.38 €18.45 €0.00 €0.00	€0.00 €65,427,37 €0.00 €17,728,56 €0.00 €71,930,70	€0.00	€0.00									II OI	

Table 25 - Total Payments by Month

13. 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

Ret Of			
Date Of Invoice	Week No	SEM Balancing Costs	VAT Balancing Costs
02/10/2015	38	-€1,655,942.38	€ 162,994.80
09/10/2015	39	-€1,135,216.68	€177,381.90
16/10/2015	40	€507,903.08	€106,382.04
23/10/2015	41	€681,099.48	€131,096.53
30/10/2015	42	€405,933.93	-€25,867.40
06/11/2015	43	€559,788.60	€38,427.78
13/11/2015	44	-€49,013.58	€13,013.70
20/11/2015	45	€760,249.70	€98,639.75
27/11/2015	46	€808,399.38	€71,687.58
04/12/2015	47	€466,243.69	-€300,749.94
11/12/2015	48	€897,437.38	-€534,740.45
18/12/2015	49	€141,592.08	-€388,379.01
30/12/2015	50	€878,459.85	-€160,949.17
05/01/2016	51	€838,626.05	-€0
08/01/2016	52	€1,134,591.97	-€0
03/01/2016	1	€615,047.23	-€0
22/01/2016	2	€1,273,552.21	-€0
29/01/2016	3	€1,174,521.30	-€0
05/02/2016	4	€504,528.98	-€0
12/02/2016	5	€856,861.27	-€0
19/02/2016	6	€92,167.26	-€0
26/02/2016	7	€255,104.63	-€0
04/03/2016	8	-€265,963.47	-€0
11/03/2016	9	€256,130.58	-€0
21/03/2016	10	-€13,382.85	-€0
25/03/2016	11	€531,976.18	-€0
01/04/2016	12	-€35,023.74	-€0
08/04/2016	13	-€2,353.02	-€0
15/04/2016	14	-€1,306,455.65	-€0
22/04/2016	15	-€1,078,232.88	-€0
29/04/2016	16	-€316,904.19	-€0
06/05/2016	17	€225,399.35	-€0
13/05/2016	18	-€852,085.24	-€0
20/05/2016	19	-€1,030,542.65	-€0
27/05/2016	20	-€835,814.27	-€0
03/06/2016	21	-€1,224,851.34	-€0
10/06/2016	22	-€1,362,326.06	-€0
17/06/2016	23	-€334,215.24	-€0
24/06/2016	24	-€735,443.16	-€0
01/07/2016	25	-€875,900.06	-€0
08/07/2016	26	-€911,184.06	-€0
15/07/2016	27	-€1,059,451.72	-€0

Date Of Invoice	Week No	SEM Balancing Costs	VAT Balancing Costs
22/07/2016	28	-€859,485.92	-€0
29/07/2016	29	-€407,934.96	-€0
05/08/2016	30	-€186,586.75	-€0
12/08/2016	31	-€117,429.10	-€0
19/08/2016	32	-€511,694.11	-€0
26/08/2016	33	-€338,852.43	-€0

Table 25- 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 2015	-€340.35	-€ 7,800.91
November 2015	-€386.53	€20,938.81
December 2015	-€421.62	€0
January 2016	-€365.96	€0
February 2016	-€324.58	€0
March 2016	-€349.99	€0
April 2016	-€246.89	€0
May 2016	-€232.99	€0
June 2016	-€251.6	€0
July 2016	-€202.38	€0
August 2016	-€250.61	€0

Table 26 - 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.

14. 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 <a href="https://example.com/her-semonth-semon

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
October 2015	Ξ.	Ξ.	Ξ.	=	04/10/2015
November 2015	16/11/2015	30/11/2015	26/11/2015	=	Ξ
December 2015	=	08/12/2015 17/12/2015 21/12/2015	08/12/2015 10/12/2015 11/12/2015 14/12/2015	14/12/2015 17/12/2015	=
January 2016	-	05/02/2016 13/01/2016	07/01/2016 08/01/2016	08/02/2016 26/01/2016	Ξ
February 2016	<u>-</u>	<u>-</u>	<u>-</u>	=	<u>10/02/2016</u>
<u>March 2016</u>	=	<u>28/03/2016</u>	<u>10/03/2016</u>	<u>10/03/2016</u>	Ξ
<u>April 2016</u>	=	=	=	=	1
<u>May 2016</u>	-	-	<u>-</u>	-	=

Month	Ex-Ante	Ex-Ante 2	Ex-Post Indicative	Ex-Post Initial	Within Day
June	Ξ	<u>-</u>	<u>-</u>	<u>15/06/2016</u>	11
July	<u>-</u>	=	<u>-</u>	=	=
Aug	Ξ.	=	=	<u>16/08/2016</u>	=

Table 27 - MIP Algorithms

Operational Date	Trade Date	Run Type	LR Peak SMP	MIP Peak SMP	Published
08/10/2015	04/10/2015	EP2	€1000	€71.89	MIP
15/11/2015	16/11/2015	EA1	€524.42	€207.35	MIP
27/11/2015	26/11/2015	EP1	€1,000	€219.39	MIP
29/11/2015	30/11/2015	EA2	€1,000	€169.45	MIP
07/12/2015	08/12/2015	EA2	€1,000	€279.06	MIP
09/12/2015	08/12/2015	EP1	€1,000	€238.81	MIP
11/12/2015	10/12/2015	EP1	€1,000	€279.06	MIP
12/12/2015	11/12/2015	EP1	€1,000	€255.40	MIP
15/12/2015	14/12/2015	EP1	€1,000	€279.06	MIP
16/12/2015	17/12/2015	EA2	€1,000	€203.01	MIP
18/12/2015	14/12/2015	EP2	€1,000	€435.61	MIP
20/12/2015	21/12/2015	EA2	€1,000	€151.53	MIP
21/12/2015	17/12/2015	EP2	€513.81	€412.60	MIP
04/01/2016	05/01/2016	EA2	€1,000	€1,000	MIP
08/01/2016	07/01/2016	EP1	€1,000	€207.75	MIP
09/01/2016	08/01/2016	EP1	€1,000	€279.06	MIP
12/01/2016	13/01/2016	EA2	€1,000	€170.51	MIP
12/01/2016	08/01/2016	EP2	€1,000	€279.06	MIP
30/01/2016	26/01/2016	EP2	€1,000	€207.85	MIP
10/02/2016	10/02/2016	WD1	€1,000	€176.75	MIP
11/03/2016	10/03/2016	EP1	€1000	€179.85	MIP
14/03/2016	10/03/2016	EP2	€1000	€179.38	MIP
27/03/2016	28/03/2016	EA2	€1000	€114.04	MIP
19/06/2016	15/06/2016	EP2	€1000	€279.06	MIP
20/08/2016	16/08/2016	EP2	€1000	€97.16	MIP

Table 28 - MIP Vs LR Peak Price Comparison