

Market Operator User Group

Dublin, 17 January 2019

Agenda

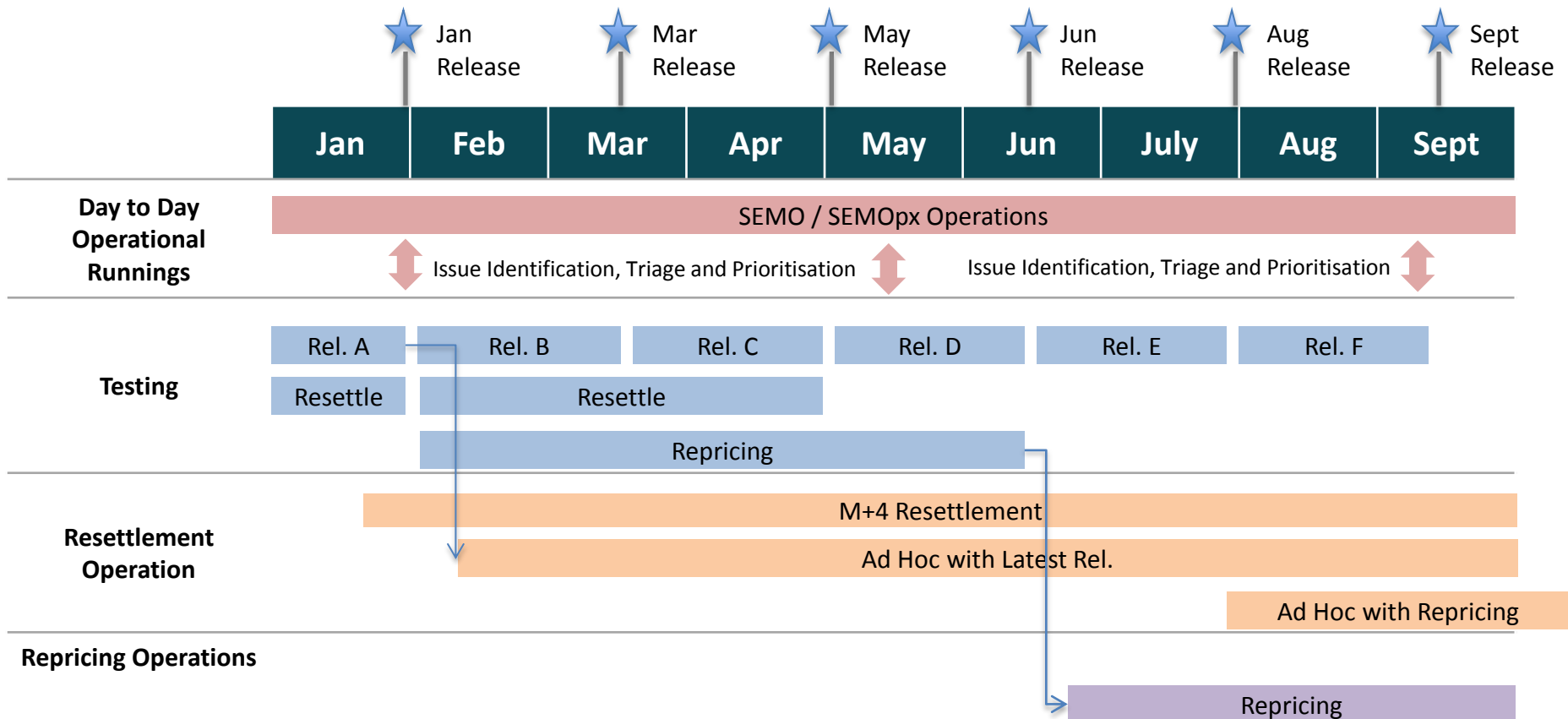
Item	Presenter
Welcome	Anne Fitzgerald
Known Issues & Day 1+ Update	David Lee
High Level Market Overview	Brendan O'Sullivan
Ex-Ante Market	Liam McAllister
Balancing Market	Aodhagan Downey
Disputes & Repricing Update	Dermot Campfield
Settlements & Cash-flow Analysis	Sean O'Rourke, John O'Dea
REMIT & Urgent Market Messages Update	Severin Garanzuay
Query Management	Claire Breslin
Q&A	

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I-SEM Day 1+, High-Level Indicative Release Timeline

- Day 1+ consists of a series of releases to the I-SEM Market systems over 2019. Items discovered by operations or participant teams will be assessed, prioritised, and packaged into a release if material.
- M+4 Resettlement will kick off on 17th January as planned, with ad hoc settlement utilising the latest code later in the year. This would see improvements in QBOA and settlement issues
- Repricing is targeted to begin once testing is successfully completed.



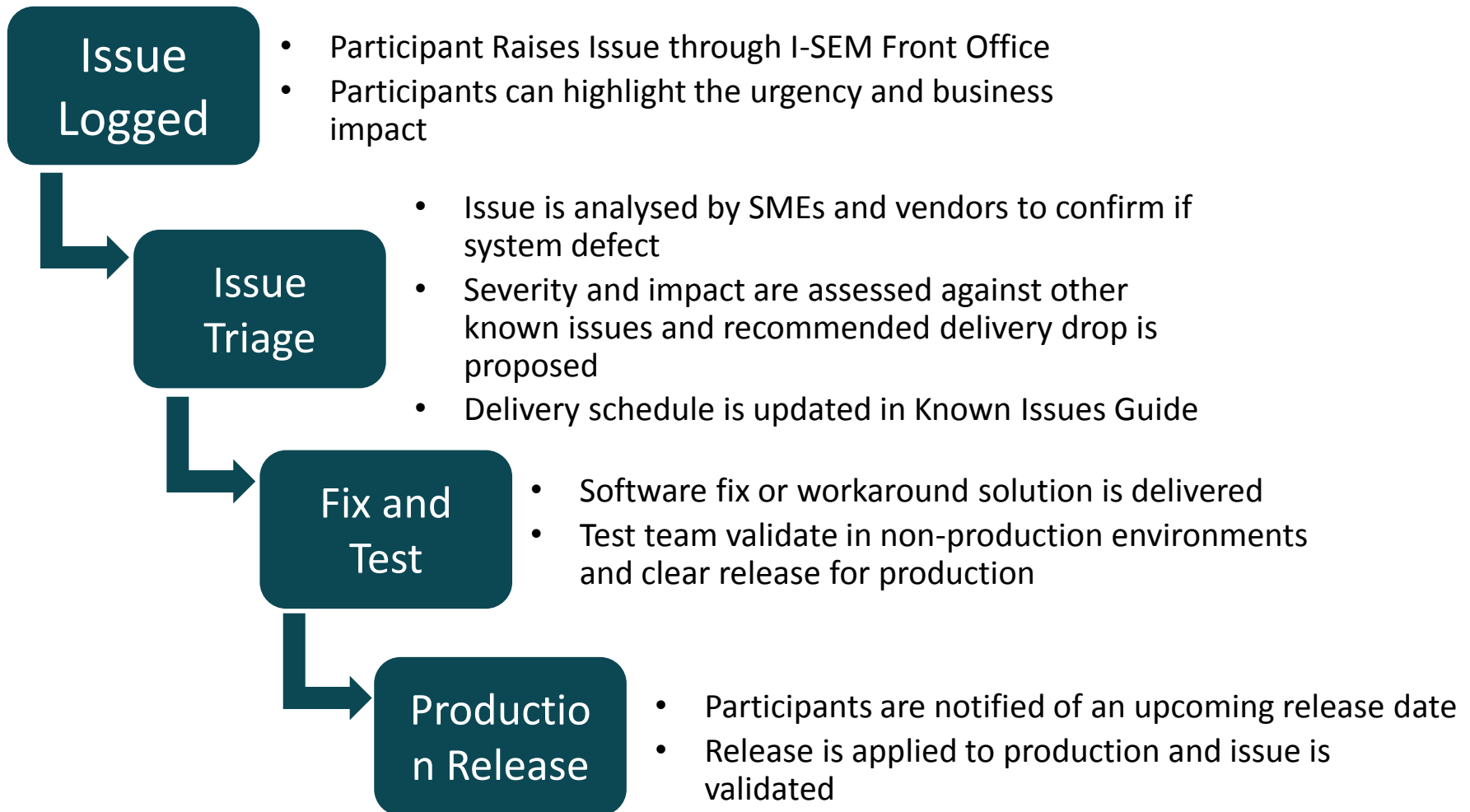
Known Issues Update - Summary

- Known Issues continue to be analysed and prioritised as and when they occur.
- Once a defect has been raised, the issue will be assessed in the wider defect pool and assigned to a code drop in line with its severity and priority.
- Drop dates to test have been agreed with our vendor, with release to production plans provided based on successful test closure.
- The table below presents a breakdown of the upcoming releases, Known Issues coverage and expected benefit.

Release Bundle	Status	Known Issues Coverage	Expected Benefit
Release A	Delivered	14 Issues	<ul style="list-style-type: none"> • Resolution to a number of settlement issues including Fixed Cost complex bid resolution, Interconnection charges, and Autoproducers difference payments and charges fix • Report 44 incorrect values for QCOB and QCNET • Report 102 publication issue • Internal operational improvements • Improved resettlement and repricing functionality
Release B	Contents Agreed	3 Issues	<ul style="list-style-type: none"> • Improvements to QBOA function including resolution to units being skipped • Incorrect MW QTY values in REPT_078/079 • Improved resettlement and repricing functionality
Release C	Planned – Contents TBC	TBC	<ul style="list-style-type: none"> • Contents TBC

Known Issues Update – Process Summary

- Below graphic provides a view of how participant facing issues may be identified, managed and delivered to the I-SEM Market Systems



Known Issues Update – SEMOpx

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
SEMOPX .001	Production of Bid/Ask Curves Report	Bid/Ask Curves report fails to generate following an auction, for a given jurisdiction, when there are no orders received for that auction.	Low impact to Members as the file would otherwise be empty.	Closed	To be removed as not planned for delivery
SEMOPX .003	REMIT Reporting	Known issues with the delay in reporting SEMOpx Member transaction to ACER REMIT platform. Testing of solution ongoing	SEMOPx Member transactions are not reported to ACER until this is resolved.	Planned Release Date	Jan 2019 Resolution: Deployment of Internal Solution
92601	ETS Auction Results	Message log is not retaining the message indicating availability of the ETS Auctions	No material impact to SEMOpx Members. Members can view all auction results. Members will need to look at auction results reports/screens to determine availability of auction results, as opposed to reviewing the message log.	Unplanned	No Confirmed Delivery date

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5497	VTOD Soak Times	<p>When retrieving VTOD from the MPI via type 2 or type 3, the SOAK WARM QUANTITY values are incorrect. The values shown are the SOAK HOT QUANTITY values.</p> <p>Please note: the integrity of the VTOD set is unaffected. This is simply an incorrect display in the MPI.</p>	<p>This leads to confusion for MPs as they cannot view the accurate Soak WARM QUANTITY values. The SO and MO approve the correct values, and those are used in the Scheduling & Dispatch process.</p>	<p>Planned Release Date</p>	<p>In Day 1 plus scope, Quarter 1 release</p> <p>Resolution: Software update from vendor</p>
5635	<p>REPT_102: Hourly Dispatch Instructions Report Intermittently Fails to generate in XML format.</p>	<p>Some instances of the PUB_HrlyDispatchInstr report (REPT_102) in XML format have failed to generate on the MPI and as a result, are also no appearing on the public website. The report is generated and available in HTML format.</p>	<p>The instance of the Hourly DI Report is not available in XML format until it is published as part of the Daily DI Reports, which are unaffected by this issue. The report is available in HTML.</p>	<p>Planned Release Date</p>	<p>Jan 2019 Release</p> <p>Resolution: Software update from vendor.</p>
5737	Units being skipped in QBOA calculations	<p>Unit being skipped in pricing due to “Error in Slope Calculation” causing periodic drop in NIV</p>	<p>QBOA is missed for a Unit, resulting in impact to Imbalance Price</p>	<p>Planned Release Date</p>	<p>In Day 1 plus scope, Quarter 1 release</p> <p>Resolution: Software update from vendor</p>

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5329	Reports missing 1st ISP of Trade Day	<p>Reports not showing first ISP interval for trade date in report.</p> <p>REPT_078: Aggregated Contract Quantities for Generation REPT_079: Aggregated Contract Quantities for Demand REPT_080: Aggregated Contract Quantities for Wind</p>	<p>The MPs will not be able to source data for the first ISP of a trade date from this report until the issue is remedied. These data can be sourced elsewhere. They are available in the ETS Market Results published on the SEMOpx website, D+1.</p>	In Analysis	<p>TBC</p> <p>Resolution: Software update from vendor</p>
5587	Missing Reports on the new SEMO Website	<p>2 Reports are currently not publishing to the new SEMO website. REPT_027 (Four Day Rolling Wind Forecast) and REPT_013 (Daily Commercial Offer Data)</p>	<p>No material impact to Market Participants or General Public as these reports are now being uploaded manually to the SEMO website.</p>	In Analysis	<p>TBC</p> <p>Resolution: Software update from vendor</p>
5603	REPT_081 hourly Anonymized INC and DEC Curves	<p>Currently the report cumulatively adds each MW quantity to the last MW quantity rather than the difference. This results in erroneous MW values in the report.</p>	<p>The PQ pairs reported in REPT_081 erroneously report values that exceed the generation capacity in Ireland. The report is inaccurate and the commercial bidding behaviour of the aggregated generation on the Island is not accurately represented.</p>	In Analysis	<p>TBC</p> <p>Resolution: Software update from vendor</p>

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5641	Incorrect MW QTY values in REPT_078/079	MW QTY values in REPT_078, _079, _080 are not being calculated correctly.	Participants cannot rely on these data until the issue is resolved. Participants should use alternate means to formulate these totals. These data are available at the individual portfolio (unit) level in the ETS Market Results files published D+1.	In Analysis	In Day 1 plus scope, drop TBC Resolution: Software update from vendor
5794	REPT_030, REPT_103	The Daily and Hourly SO Interconnector Trades reports are failing to publish to the MPI and subsequently to the SEMO website	Participant unable to acquire these data until this issue is addressed	In Analysis	TBC Resolution: Software update from vendor
5845	REPT_022: Initial Interconnect or Flows and Residual Capacity	This report is appearing EMPTY in the MPI and website.	There are no data available in the report.	In Analysis	TBC Resolution: Software update from vendor
108598	Imbalance Pricing workflow producing Backups	The Imbalance price is using the market backup price for multiple periods at a time during the night.	Participants are receiving the market backup price for multiple periods at a time.	In Analysis	TBC Resolution: Software update from vendor

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5806	DESY Pumped Storage instructions are not processing correctly	DESY Pumped Storage instructions are not processing correctly	Incorrect QBOA values, resulting in impact to Imbalance Price. A workaround has been put in place for this issue.	In Analysis	TBC Resolution: Software update from vendor
5817	Initial conditions being incorrectly reset in some circumstances	Initial conditions being incorrectly reset in some circumstances	Incorrect QBOA values, resulting in impact to Imbalance Price	In Analysis	TBC Resolution: Software update from vendor
5381	Cancelled Dispatch Instructions are being processed in pricing	Dispatch Instructions which are cancelled with a 'Not Accepted' status are being processed in pricing	Incorrect QBOA values, resulting in impact to Imbalance Price.	In Analysis	TBC Resolution: Software update from vendor
SEMO_WBE_001	SEMO and SEMOpx ongoing issues	The SEMO and SEMOpx website currently has issues with the dynamic reporting, report retention and ongoing manual workaround to publish reports	This impact report availability to participants as well as use of dynamic reporting to provide an accurate representation of the static reports. All reports are available in the static section and manual workaround are carried out on a daily basis to ensure reports are not missed	In Analysis	TBC Resolution: Software update from vendor

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5195	Report display	HTML report is displayed in UTC rather than always in local time.	This issue affects 39 reports. This is a display issue only, as the values and corresponding time interval are correct.	Unplanned	No Confirmed Delivery date
5644	REPT_011 Duplicate Entries	Entries for each COD offer type (Simple/Complex) leading to the duplicate entries in Daily Technical Offer Data Report	Impacting units with both Simple and Complex COD submissions. Participants to continue to use report as normal	Unplanned	No Confirmed Delivery date
5740	Annual CLAF Report not produced and available via MPI	REPT_023: Annual CLAF Report is not produced and available via the MPI.	The Annual CLAF is published to the SEMO website in XLS format. The production of the XML version (specified as REPT_023) is subject to a software update from the vendor. Market Participants and General Public audiences can download the data from the SEMO website, albeit in a different format.	Unplanned	No Confirmed Delivery date

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5751	REPT_014: Daily Demand ControlData	REPT_014 is producing incorrect demand control values	The data in the report are incorrect and not available from other sources	Unplanned	No Confirmed Delivery date
5796 5844 (PNs)	REPT_042	The Forecast Imbalance Report is not calculating the some of the data within the reports correctly.	<p>The Net Interconnector Schedule value is incorrectly reporting as 0 when both interconnectors are on full export. The PN calculations are incorrect.</p> <p>The data for the Moyle Interconnector are sometimes not contained within the calculated and reported value for the Net Interconnector Schedule attribute.</p>	Unplanned	No Confirmed Delivery date
5812	REPT_068 UOM error	The Dispatch Quantity report (REPT_068) erroneously calculates the “Dispatch Quantity” field as MW for P/S units when in pumping mode. These values should be calculated and reported as MWh.	MPs will observe incorrect values for pumping mode MWh values in this report until remedied. Settlement is unaffected as those calculations use metered generation.	Unplanned	No Confirmed Delivery date

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
10208 1	REPT_006: Daily DI Report	For P/S Units, intermittent representation of duplicate values (MWOFF) instructions appearing. This is due to internal processing of records and does not affect the Instruction Profiling process, only the outbound report.	For P/S units, the Market Participant will need to ignore the duplicate entry until resolved.	Unplanned	No Confirmed Delivery date
5845	REPT_022 Showing Empty	The Initial Interconnector Flows and Residual Capacity Report (REPT_022) is produced EMPTY on the MPI, and subsequently to the SEMO website. This is an error with the vendor design that causes the report to fail when no SO Trades are available in the system.	Report unavailable to Market Participants and General Public.	Unplanned	No Confirmed Delivery date
5870	REPT_081 hourly Anonymized INC and DEC Curves	REPT_081 can contain records for a full day rather than on a 30 minutes basis as per design	Report can publish inaccurate data	Unplanned	No Confirmed Delivery date

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5654	Incorrect result for CDISCOUNT and CPREMIUM for the IRCU unit in REPT_043	In REPT_043, the CPREMIUM & CDISCOUNT charge calculations for the IRCU unit are incorrect due to missing data.	The REPT_043 will be incorrect for these charge types until the issue is resolved within the software.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5658	REPT_044, incorrect values for QCOB, QCNET	Settlement Report is reporting QCOB and QCNET as daily values instead of 30 minute values, the calculation is working as designed using each ISP values in the Settlement calculations.	Minimal Impact the report only represents a single value for both QCOB and QCNET in REPT_033, the settlement calculation is unaffected.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5741	FPN / Controllable Wind (DQ)	PN and Availability are not being profiled correctly i.e. the start and end of trading period effective values.	DQ values not correct, leading to incorrect settlement charge calculations in all settlement artefacts	Planned Release Date	Jan 2019 Resolution: Software update from vendor.

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5757	The FPN value in IP is different from CSB	QFPN being calculated in MMS based on values of FPN profile on each half hour boundary point only and not considering changes in profile within the half hour.	FPN within period leading to incorrect Instruction Profiling outcomes, affecting quality of data used for settlements determinants and charge type calculations.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5761	Fixed Costs	Current logic needs to be modified so that CSB gets the correct complex offer data for when a complex bid has been used for a BOA. Fixes required on both Settlements System (CSB) and upstream Market Systems (MA/MI).	Some Fixed Cost calculations are incorrect.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5766	Actual Availability	IP Time Weighted Average calculation of qAA only referencing beginning and end of trading period	In some cases, qAA not correct.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5652	Interconnectors	CIMB, Premium & Discount for IRCU and IEU not using QAO and QAB.	Interconnector settlements for CIMB, CPREMIUM, CDISCOUNT not correct.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5646	Autoproducers	Traded positions of TU units are not being considered for difference payments and charges.	Difference Charges and Payments for autoproducer units not correct when traded positions exist.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5710	Currency adjustment charge defect	CCA is not being calculated for Supplier lite windfarms registered as suppliers. CCA should be calculated for all supply units (currently only being charged if QMLF < 0)	Settlement Reports/Documents/Statements incorrect	Planned Release Date	Jan 2019 Resolution: Software update from vendor.

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5785	RTQBOA: PBOA COD	Intermittent switching PBOA from Simple to Complex COD	Incorrect PBOA values, resulting in impact to Imbalance Price	Planned Release Date	In Day 1 plus scope, Quarter 1 release Resolution: Software update from vendor
10372 2	CFC not available in Settlement artefacts	Due to internal datatransfer issues, the CFC costs are not available in the settlement artefacts	CFC not available in Settlement artefacts	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5799	Incorrect CFC and Premium Payments	Caused by incorrect QBOA calculation in particular circumstances	CFC and Premium data incorrect	Planned Release Date	Jan 2019 Resolution: Software update from vendor.

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5743	CRM Sttl, W/in Day Difference Charges	CRM Within Day Difference Charges will not make use of a BOA where there is both a QAO and a QAB.	Calculation incorrect at the time.	Planned Release Date	Jan 2019 Resolution: Software update from vendor.
5804	No Load Cost calculation in CFC	Recoverable No Load Costs in CFC double what they should be	Incorrect value in CFC for these cases	Planned Release Date	Jan 2019 Resolution: Software update from vendor.

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5808	FMOC FX rate applied not aligned with the Trade and settlement code 1.3.9.	FMOC is applying the trading day exchange rate of the last day of the month.	FMOC is applying the trading day exchange rate of the last day of the month.	In Analysis	TBC Resolution: Software update from vendor
5888	Settlement reports are only being kept for 2 months	All Settlement reports produced in MMS currently only have a retention of 2 months in the MPI. They are then archived and not available through the front end	Settlement reports/documents/Statements unavailable to participants after 2 months through the MPI	In Analysis	TBC Resolution: Software update from vendor

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5314	REPT_043, _044	The timestamp attribute in the Value element contains +1 second, which it should not.	Market participants and any third-party system providers should ignore the additional 1-second on the timestamp and consider the time to be exactly on the ISP interval.	Unplanned	No Confirmed Delivery date
5322	REPT_048 Collateral Report	PUBLICATION_TIMESTAMP attribute is incorrectly assigned the start time of the credit assessment, rather than the finish time.	The difference in time is very brief and has no material effect on the report quality.	Unplanned	No Confirmed Delivery date
5339	REPT_043	Incorrect rounding applied to detail records. Summary and Detail records do not sum correctly.	Inconsistency between detailed and summary records within the same REPT_043. Research indicates this to be small amount relative to document totals.	Unplanned	No Confirmed Delivery date

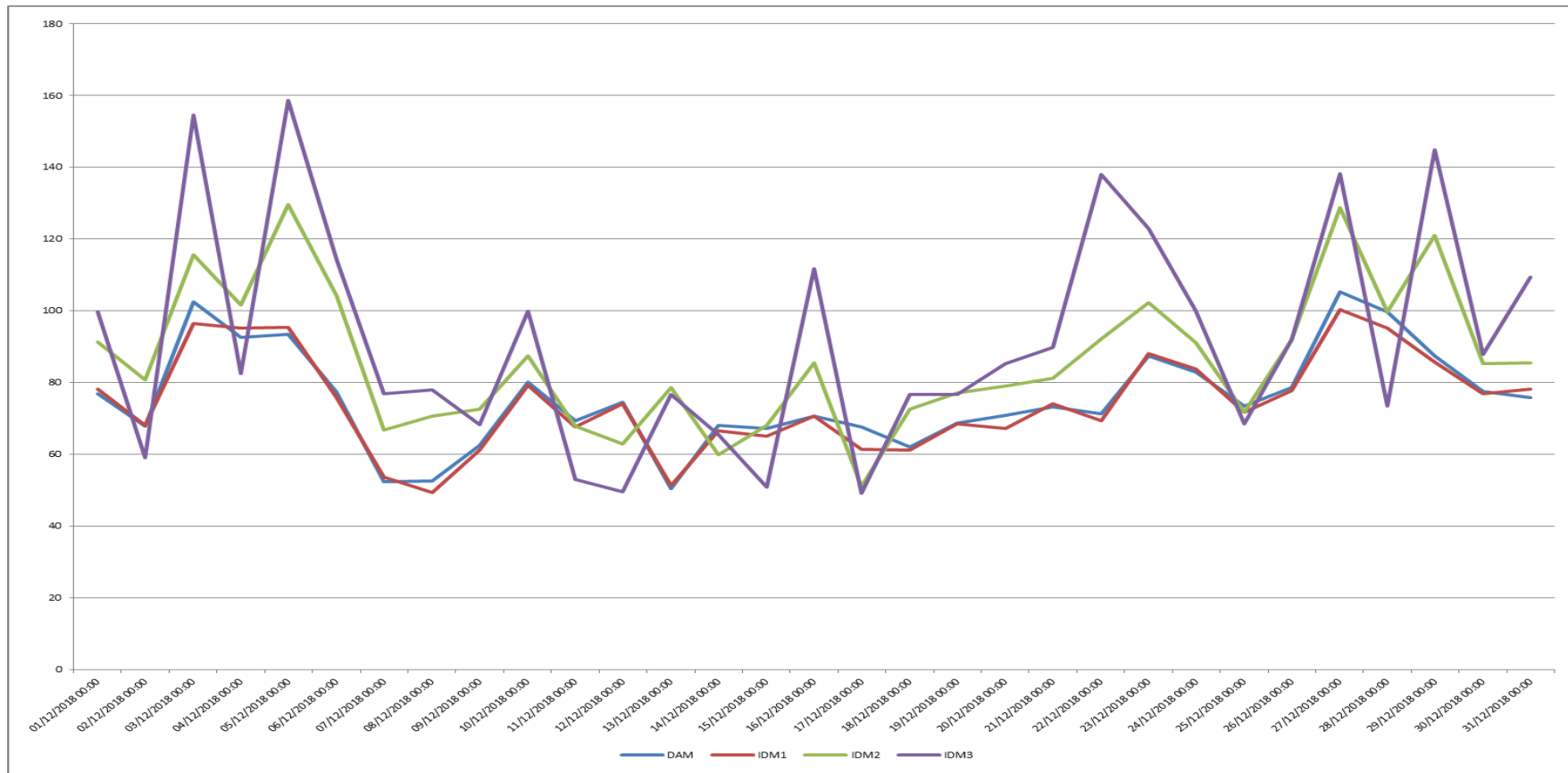
Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5657	Biased Quantities for Generator Units registered as part of an Autoproducer site	Biased Quantities are currently being calculated for all generator units which is registered as part of an Autoproducer site.	The SEMO settlements team has developed a work around for this issue. We will retain the item on this list, but it has no impact on the Market Participants.	Unplanned	No Confirmed Delivery date
5772	Capacity Charges/Payments	CCC, CCP and CSOCDIFFP settlement for NI units not applying the Annual Capacity Exchange rate as per G.1.3.5 & G.1.3.6. Balancing market FX rate incorrect being applied.	CCC, CCP and CSOCDIFFP settlement for NI units not correct.	Unplanned	No Confirmed Delivery date

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Average Ex-Ante Auction Prices



• Average DAM Price:

€75.49/MWh

• Average IDA2 Price:

€86.26/MWh

• Average IDA1 Price:

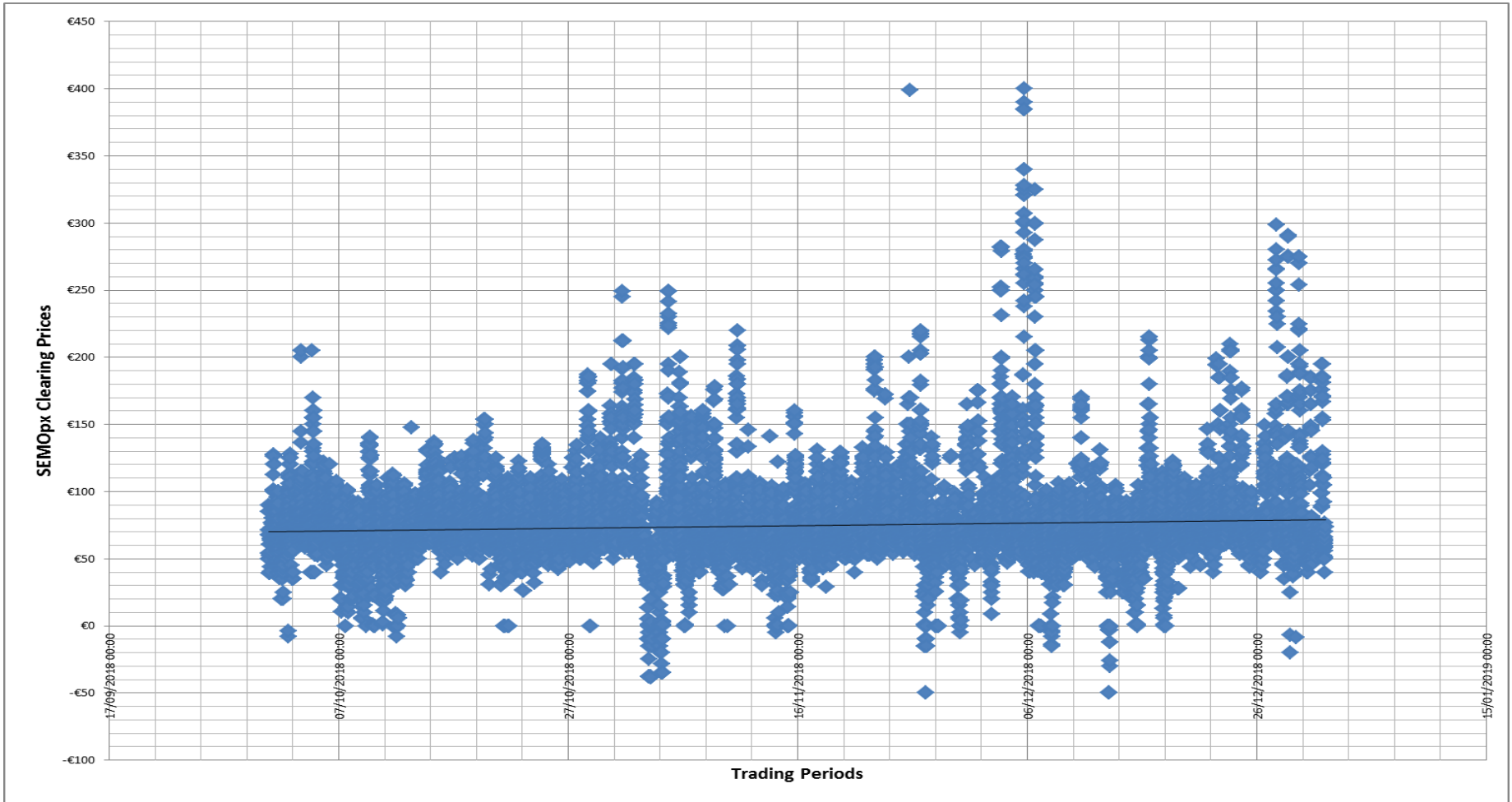
€74.42/MWh

• Average IDA3 Price:

€91.99/MWh

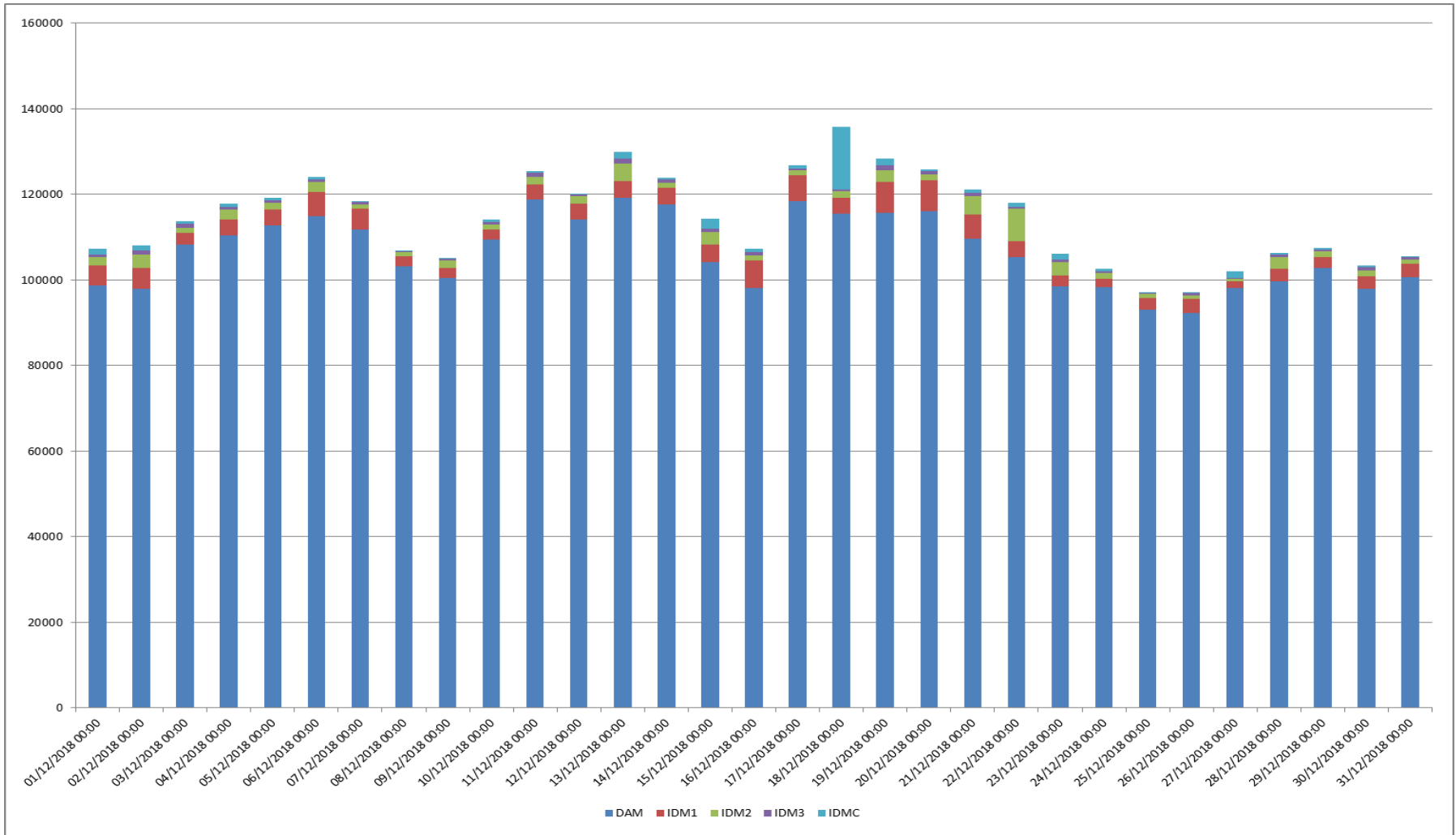
Ex-ante prices proving higher driven by system conditions (wind, plant outages, etc.)

Ex-Ante Auction Prices



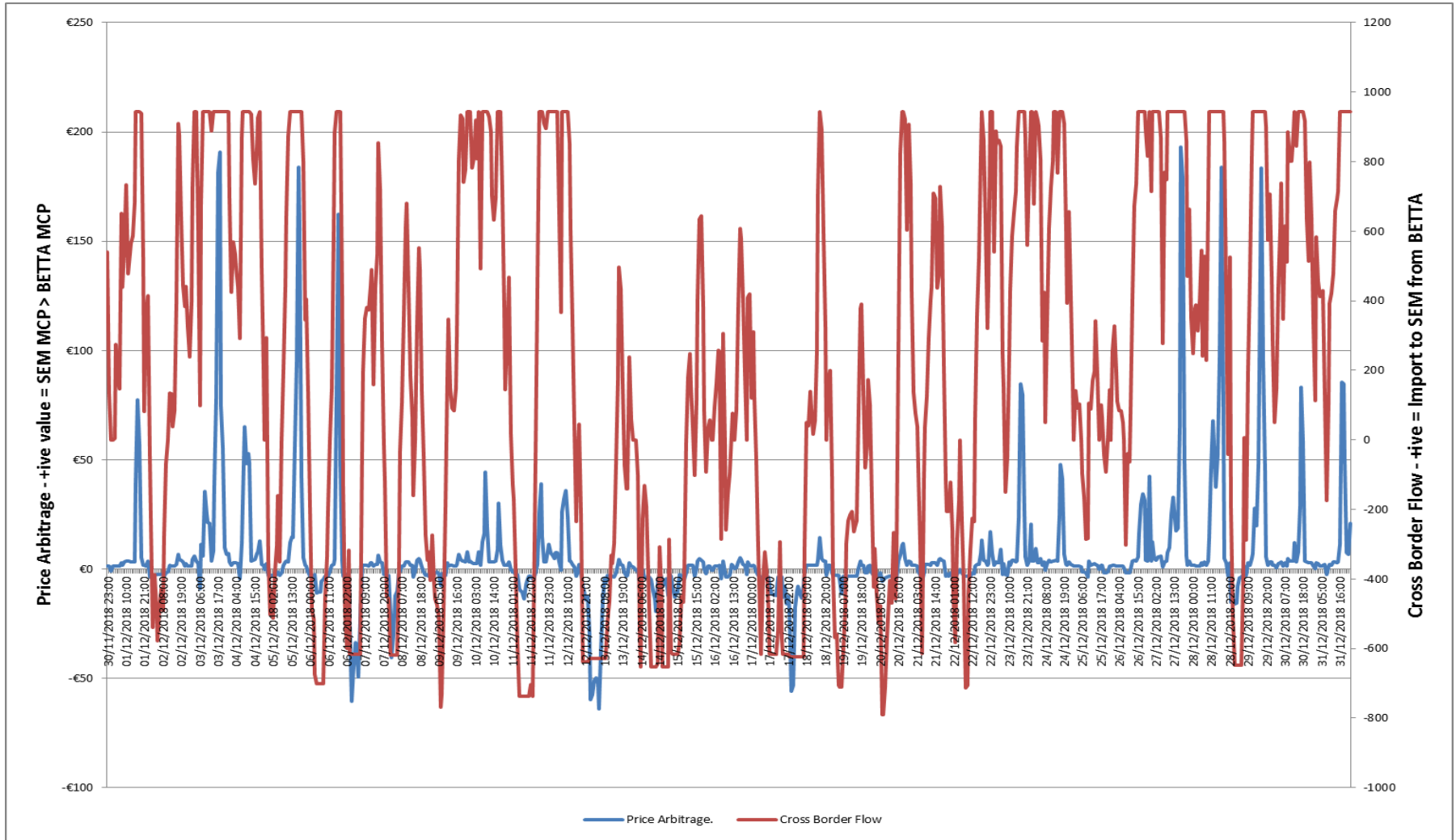
December has seen more prices in excess of €200 than any month so far.

Ex Ante Volumes

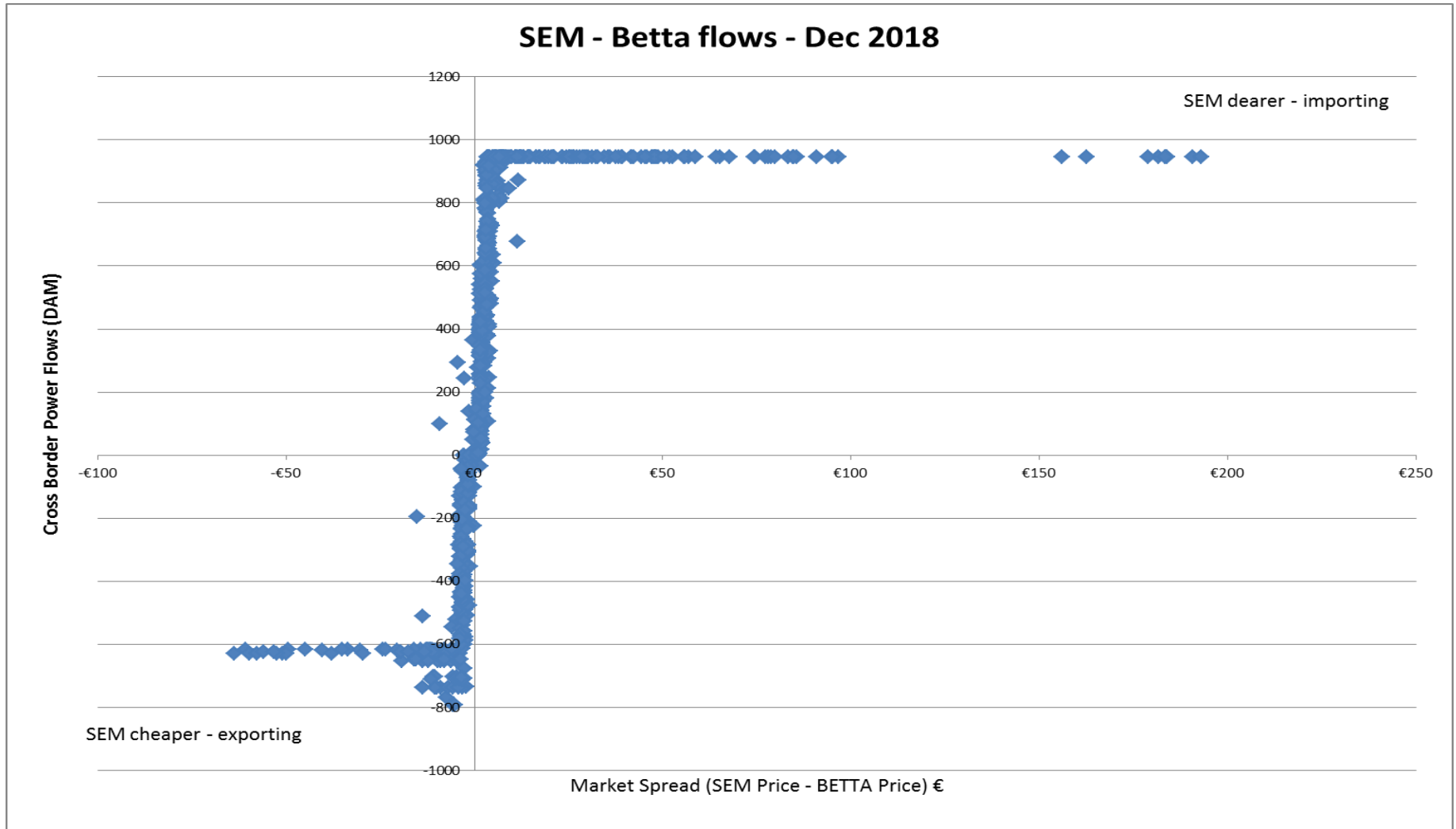


Traded volumes in line with previous months

Market Spread (SEM & BETTA) with Cross Border Flows

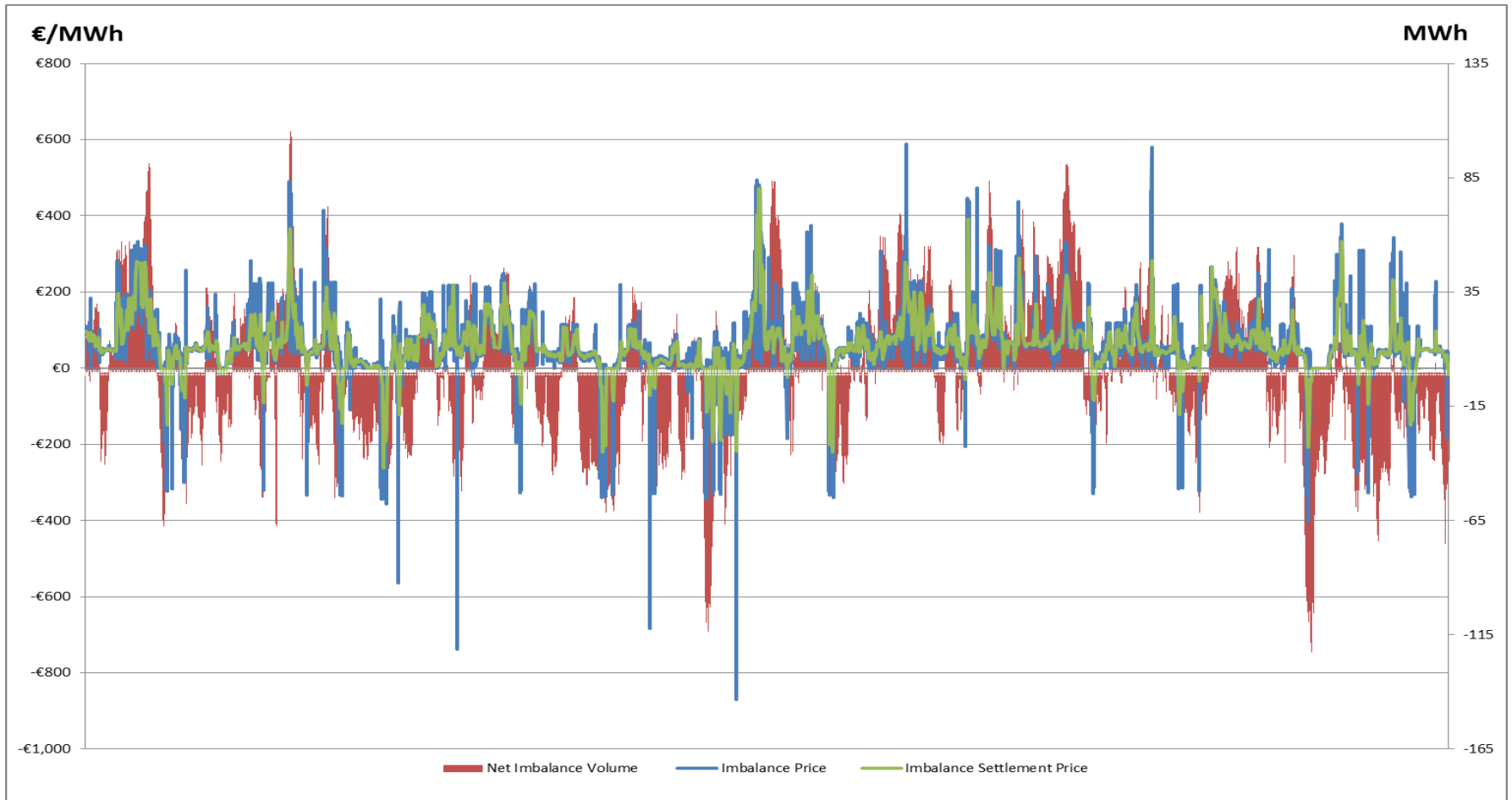


Market Coupling Results



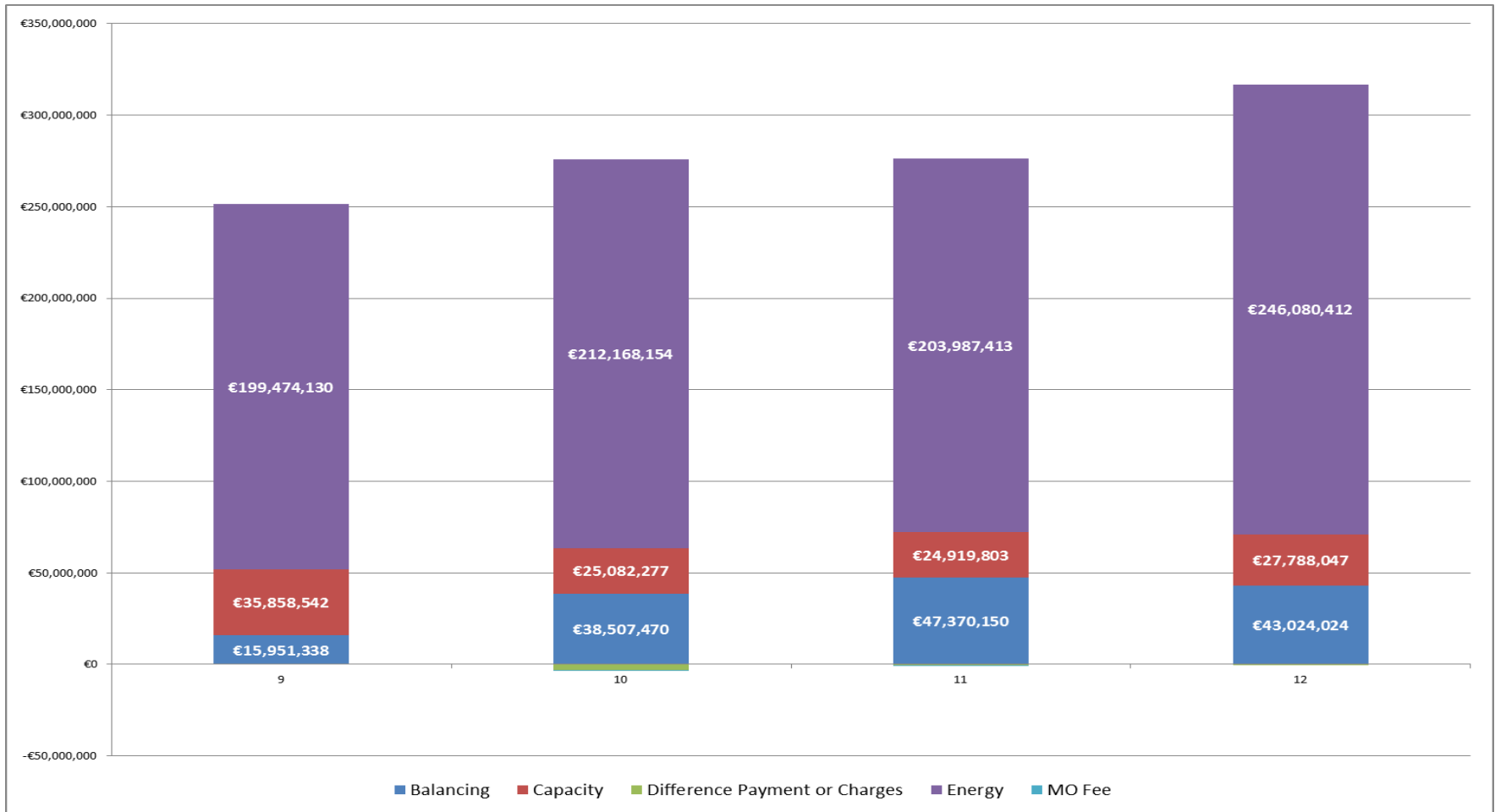
Higher ex-ante prices have meant more imports

Imbalance Pricing & Net Imbalance Volume



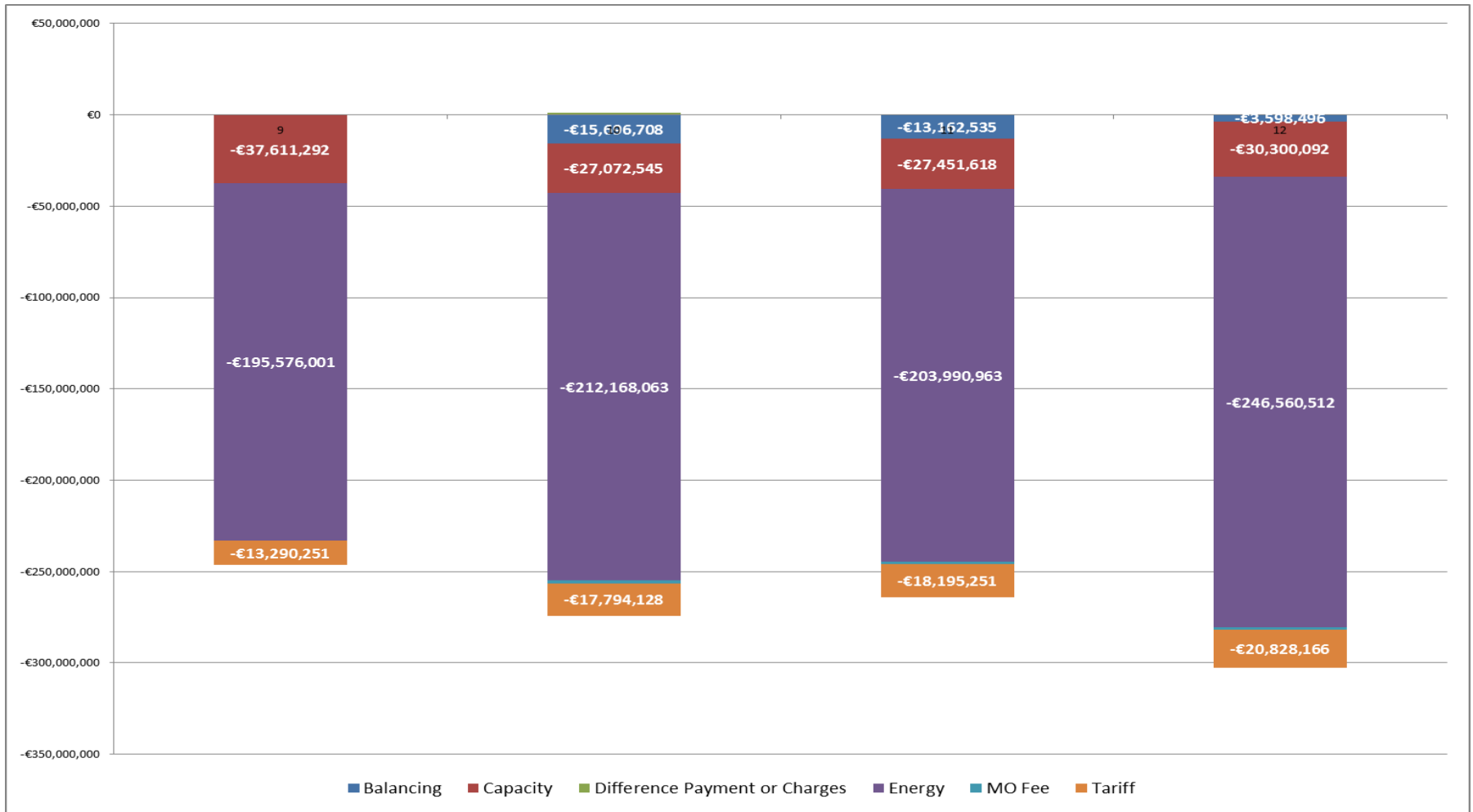
- Max. (30 Min.) Imb. Price: €472.14/MWh
- Min. (30 Min.) Imb. Price: -€263.17/MWh
- Average (30 Min.) Imb. Price: €59.57/MWh

Monthly Revenue – Sept to Dec 2018



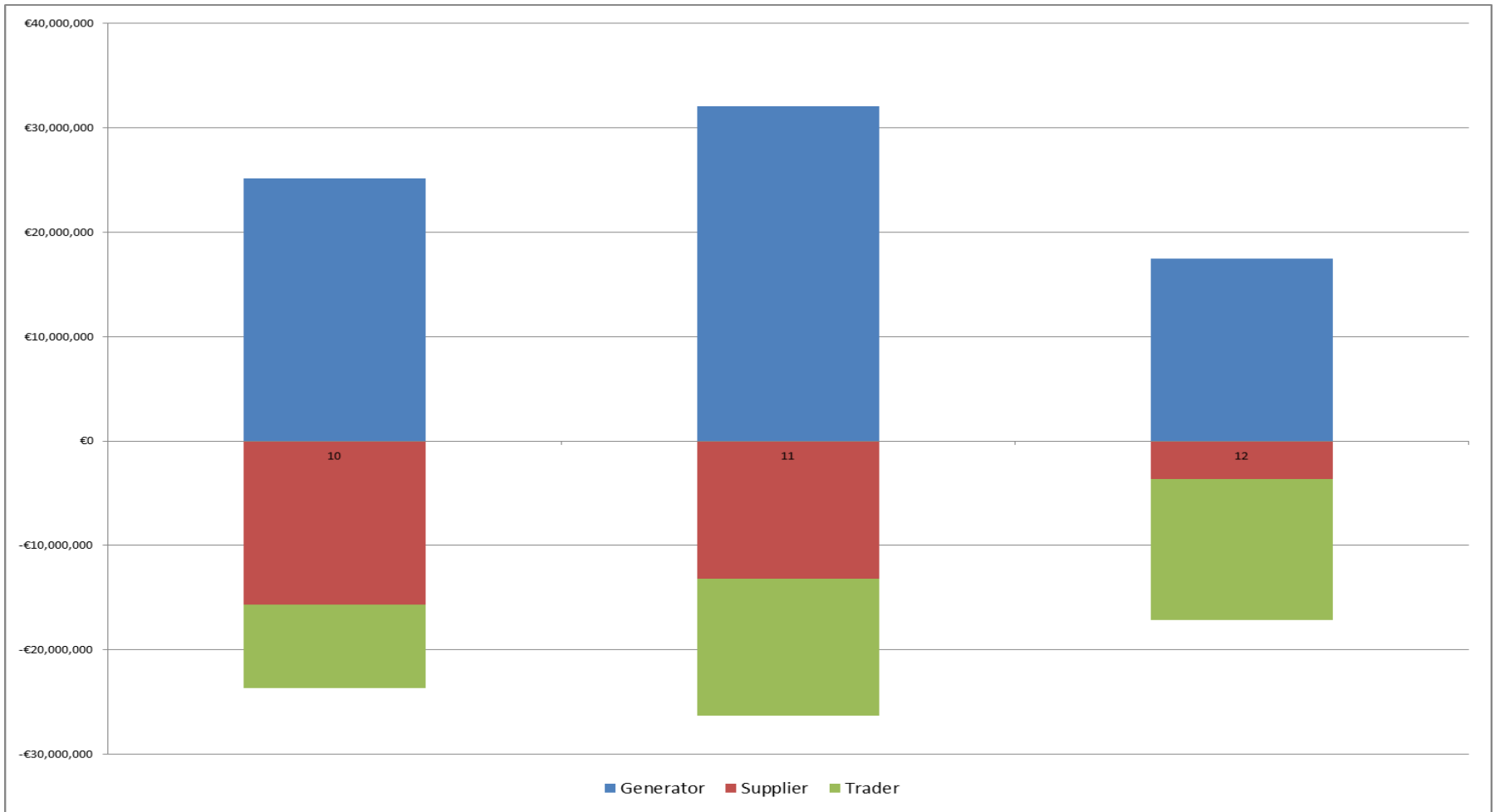
Energy costs generally still reflective of pre-transition costs. Higher costs in December based on higher ex-ante prices

Monthly Revenue – Sept to Dec 2018



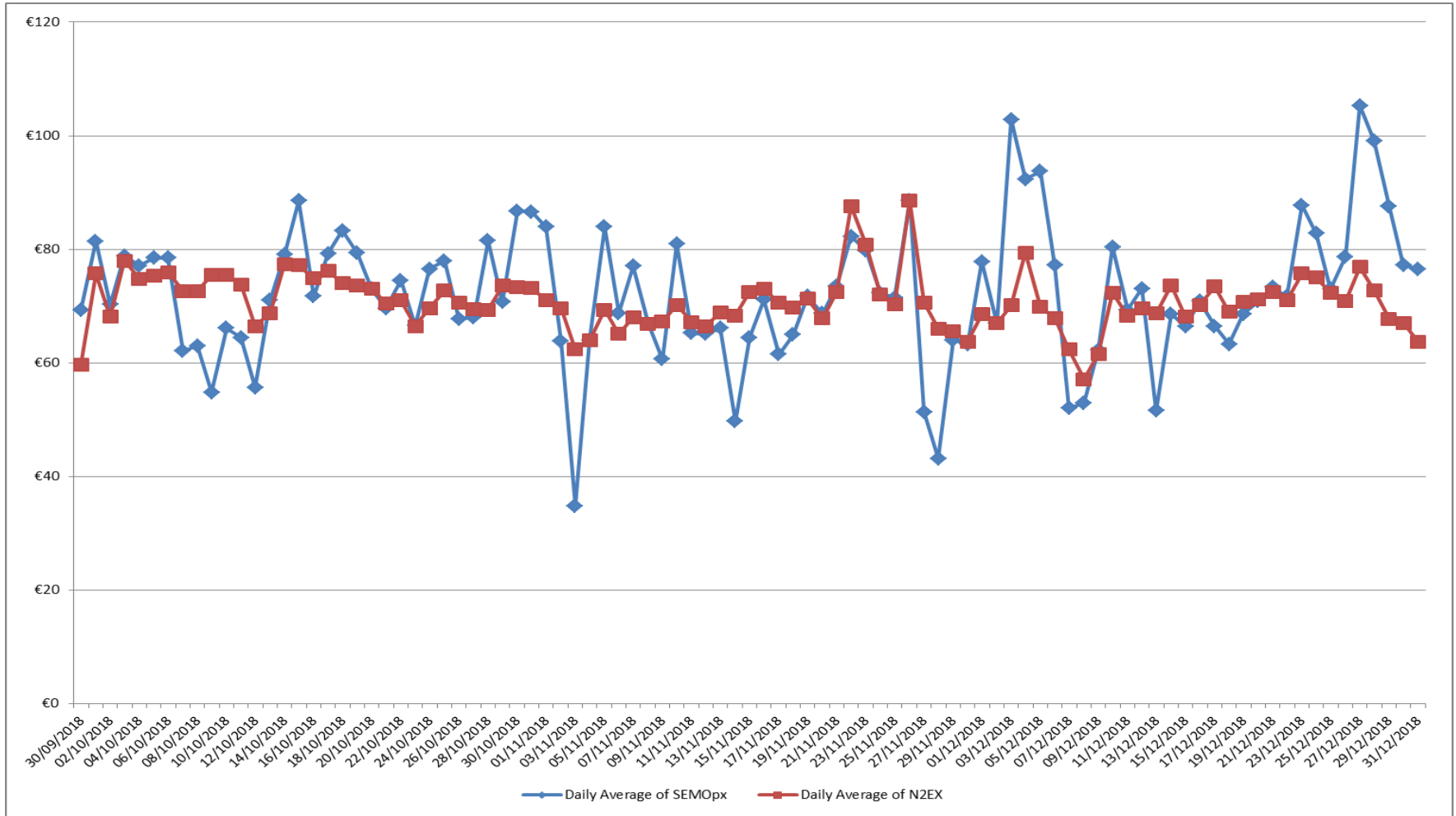
Lower charges on suppliers for balancing represent imbalance charge only. Balancing payments to generators include other charge codes related to non-energy actions

Split of Imbalance Component (CIMB)



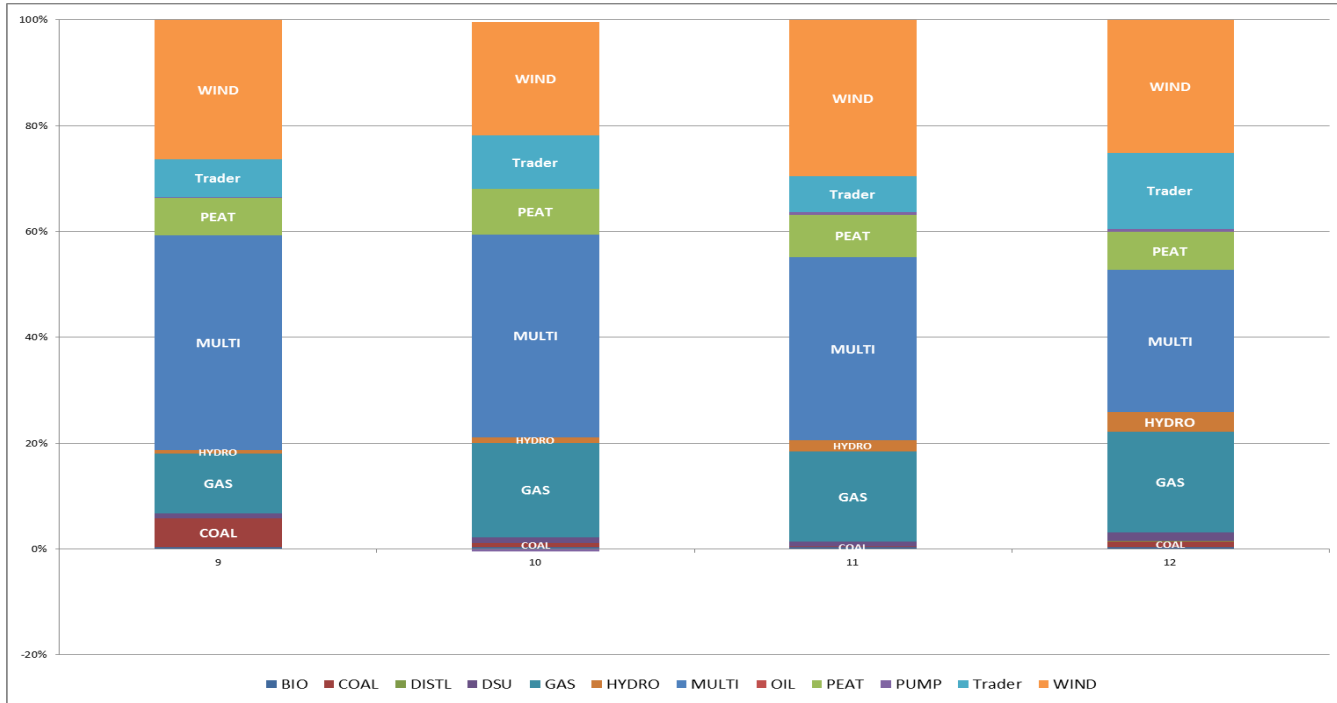
Split of Imbalance Change between Generators, Traders and Suppliers since go-live

Wholesale market price trends – SEM vs N2EX



Ex-ante prices in same range as BETTA but showing more volatility

Fuel Mix of Ex-Ante Market



	9	10	11	12
BIO	0.38%	0.42%	0.37%	0.36%
COAL	5.39%	0.80%	0.07%	1.07%
DISTL	0.01%	0.00%	0.01%	0.08%
DSU	0.91%	1.03%	0.95%	1.57%
GAS	11.32%	17.98%	17.05%	19.07%
HYDRO	0.74%	1.08%	2.09%	3.72%
MULTI	40.51%	38.60%	34.61%	26.88%
OIL	0.00%	0.00%	0.00%	0.01%
PEAT	7.05%	8.73%	8.02%	7.17%
PUMP	0.20%	-0.40%	0.50%	0.60%
Trader	7.14%	10.12%	6.74%	14.30%
WIND	26.35%	21.64%	29.58%	25.16%

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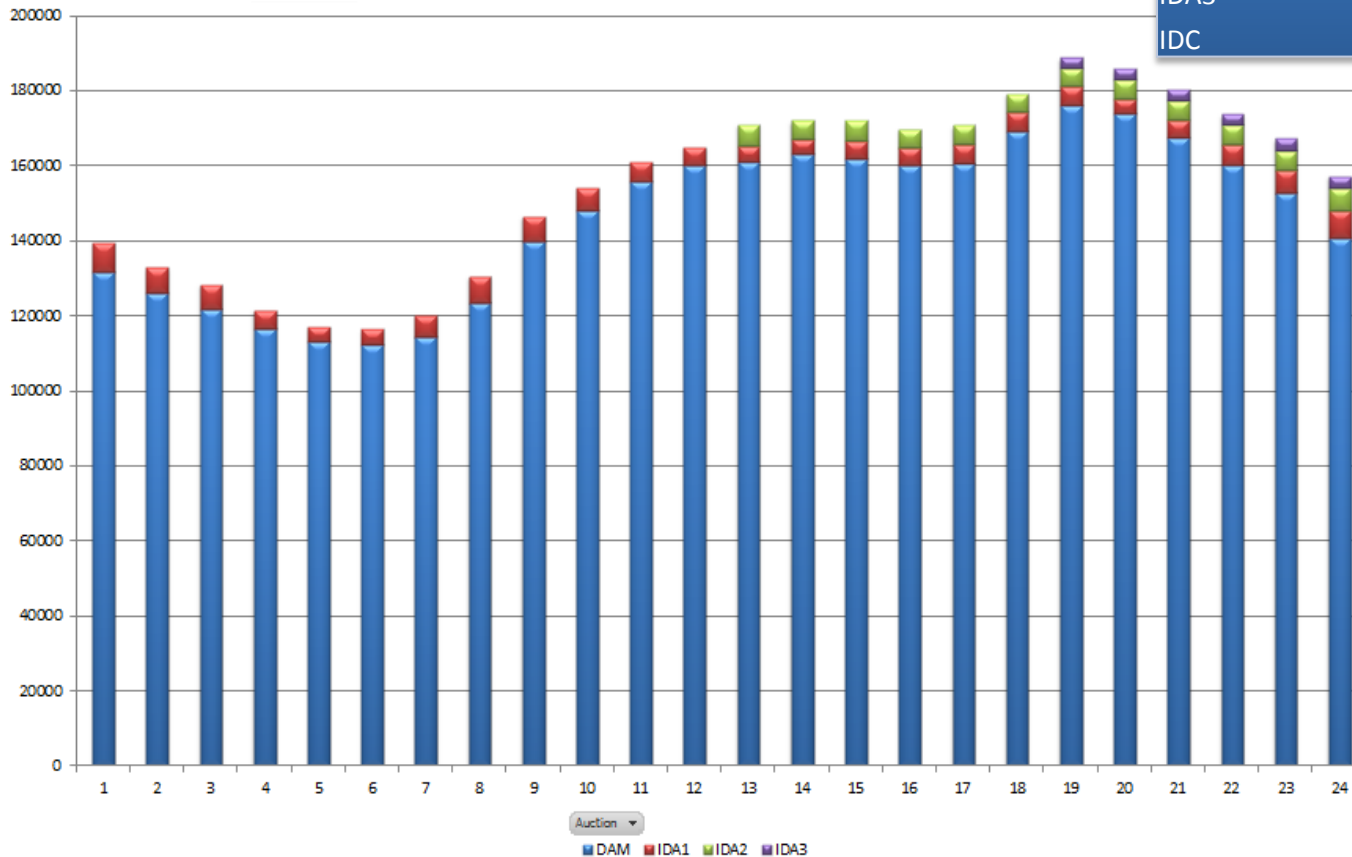
Ex-Ante Markets

- Volumes from ex-ante (6th Dec - 6th Jan)

- **DAM** Auction still dominant

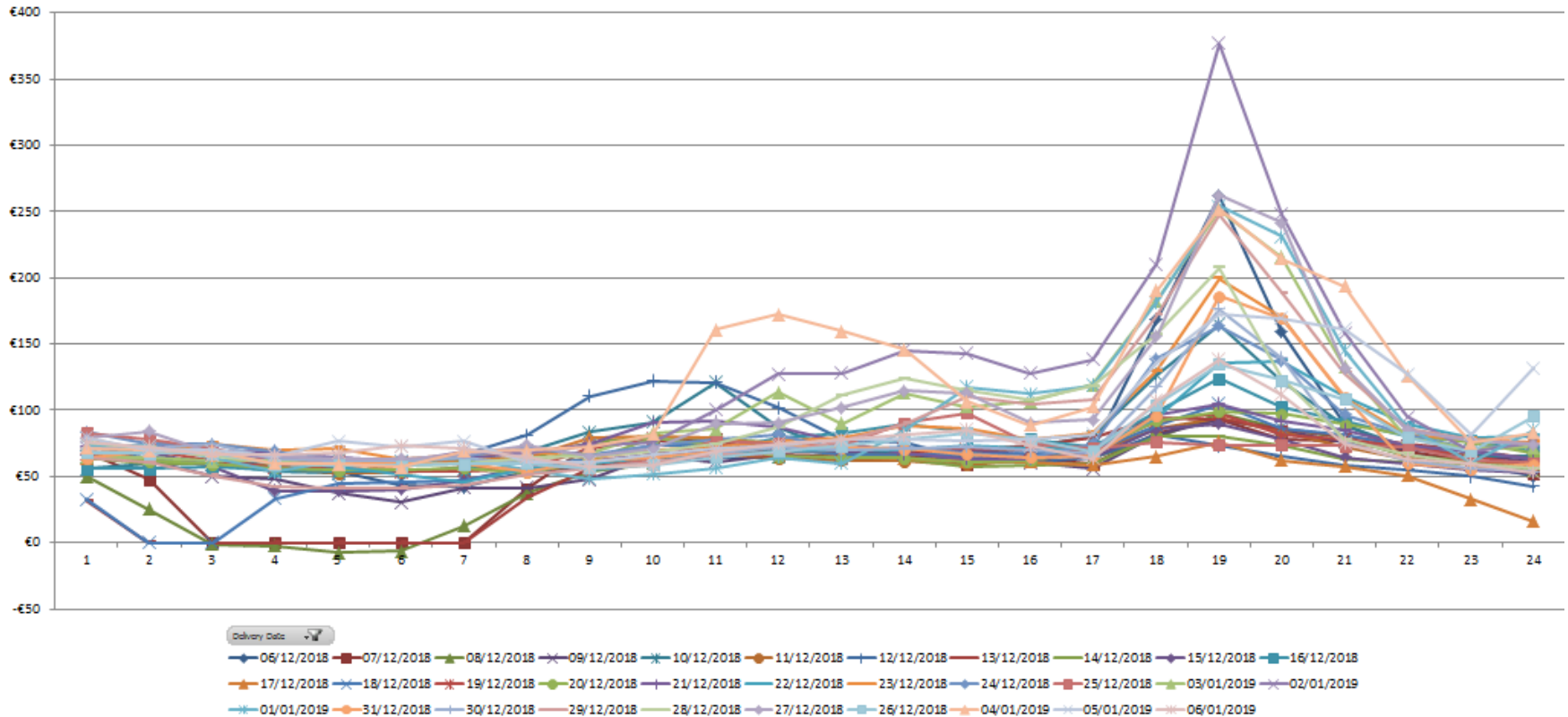
**Using approx. prices*

Market	Value	% of DAM
DAM	€286,327,337	
IDA1	€9,806,089	3.42%
IDA2	€5,481,111	1.91%
IDA3	€1,693,687	0.59%
IDC	€1,064,895	0.37%



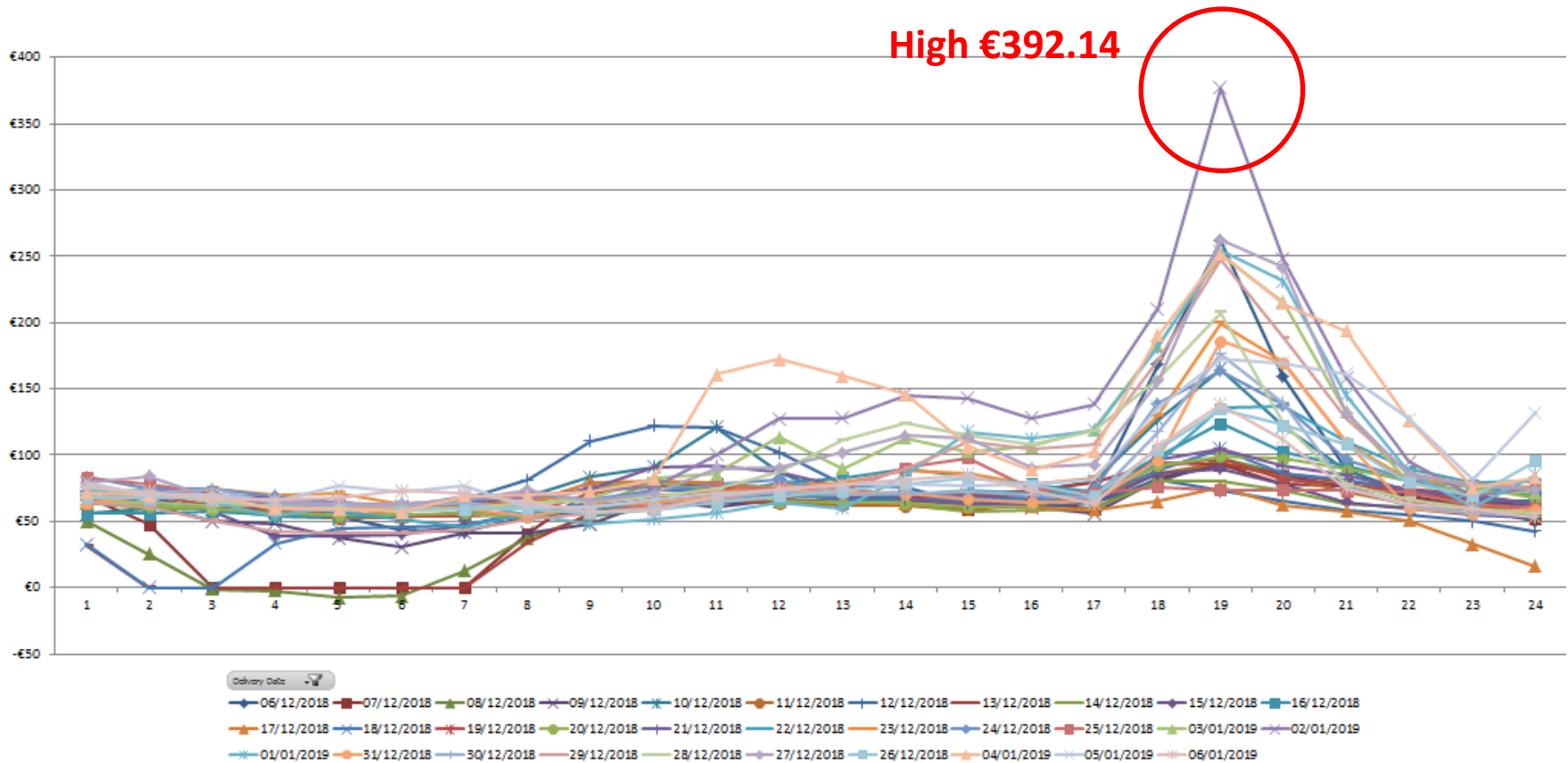
Ex-Ante Markets

- Prices from ex-ante auctions (6th Dec - 6th Jan) – Price following Load



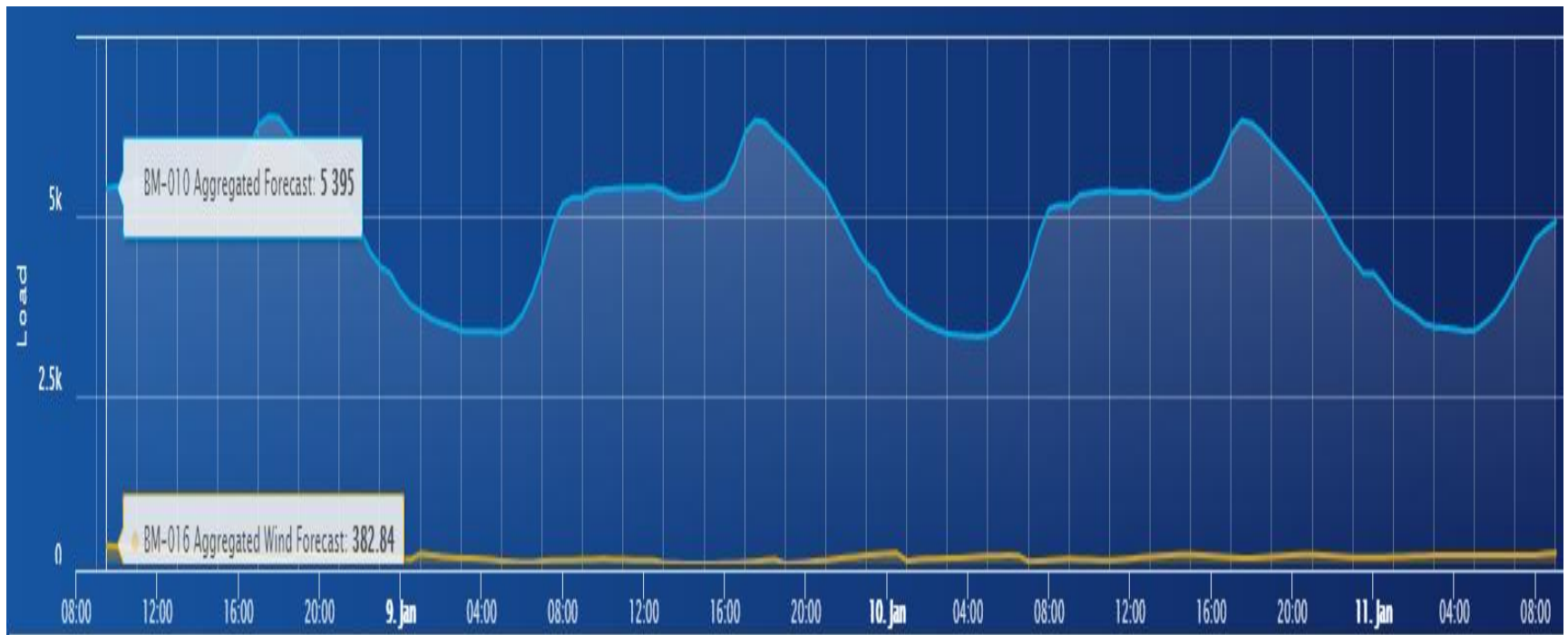
Ex-Ante Markets

- High Prices Observed – IDA3 ~ €392.14



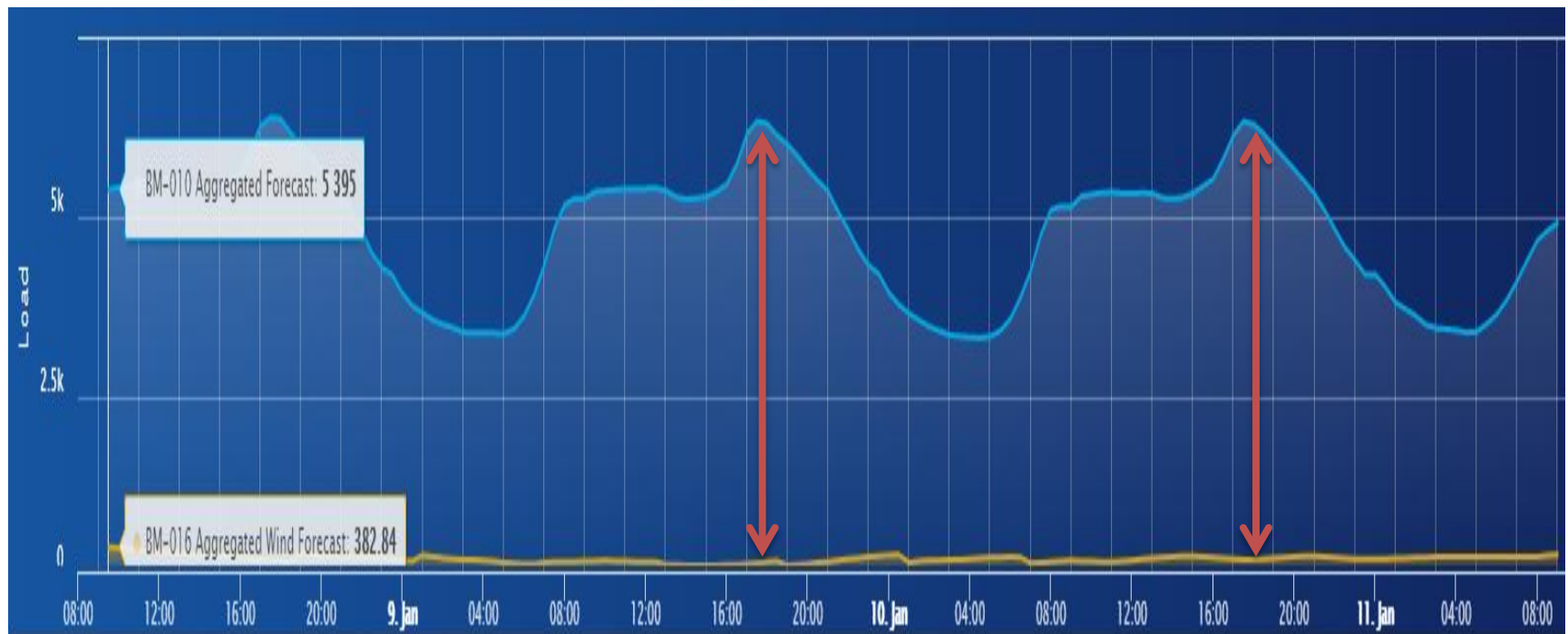
Ex-Ante Market Analysis

- Wind has been minimal during peak load, in recent days....



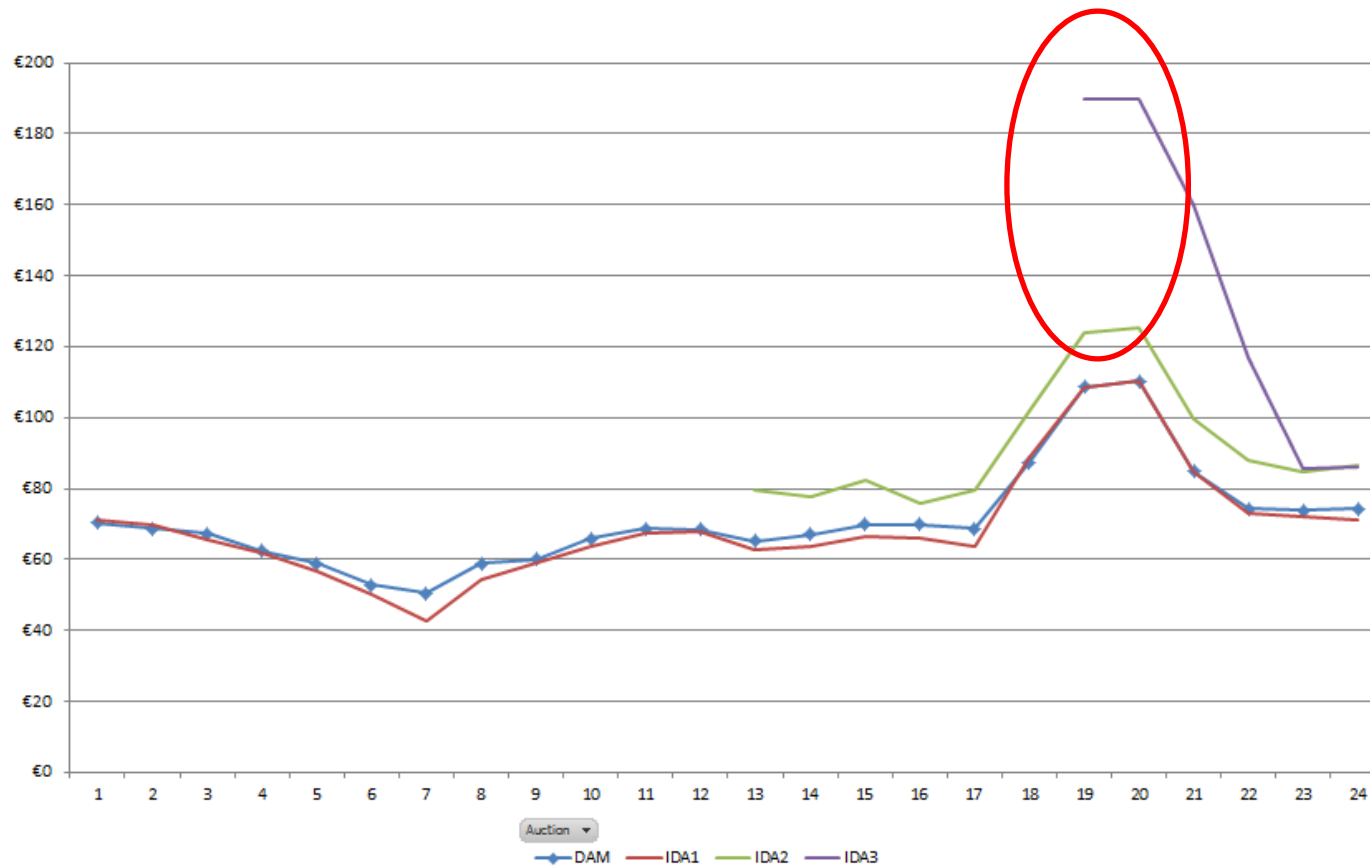
Ex-Ante Market Analysis

- This is continuing to contribute to high prices which have been a feature over last couple of weeks



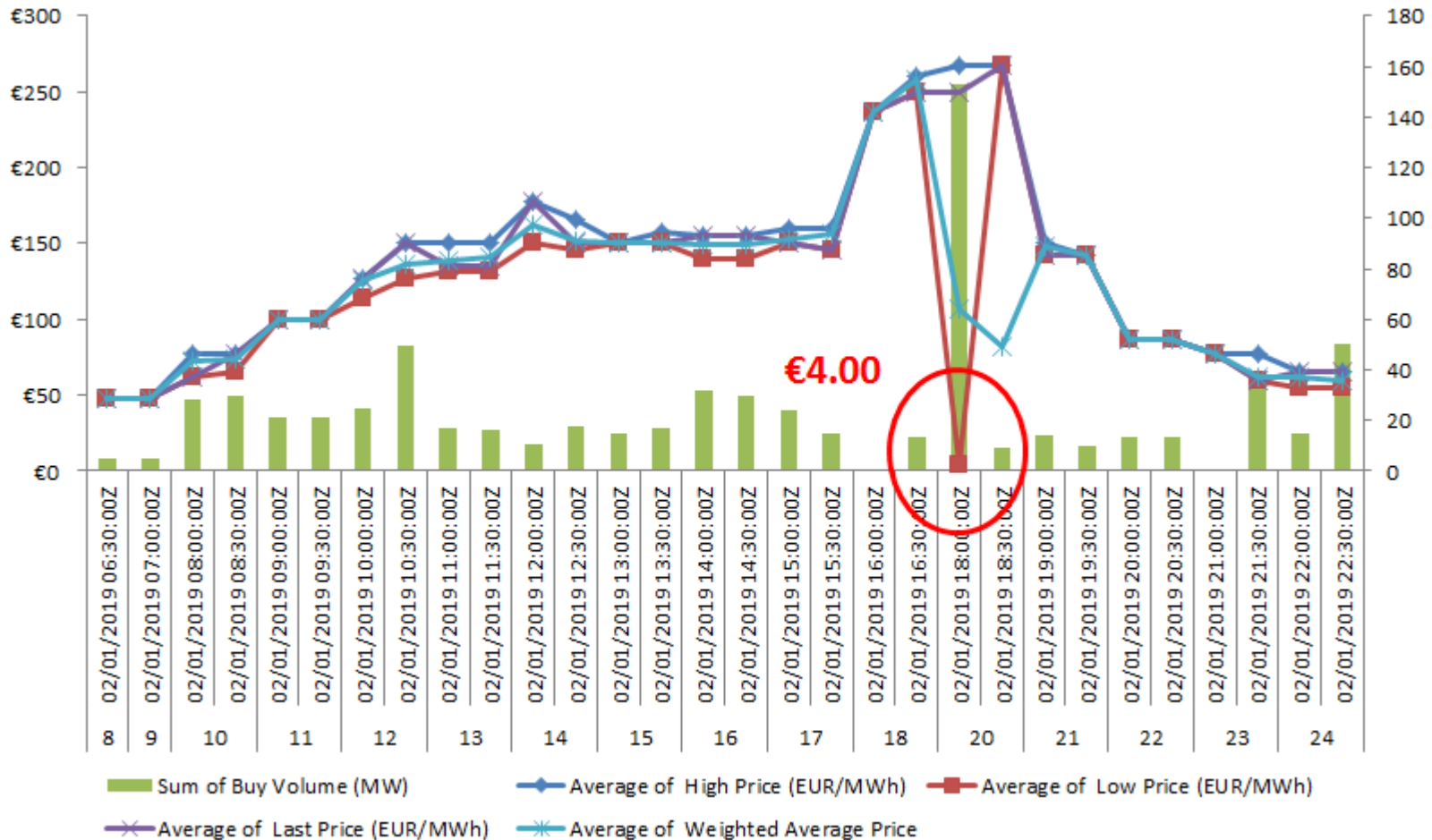
Ex-Ante Market Analysis

- Some Market Outliers 22nd December, IDA3



Ex-Ante Market Analysis

- Ex-Ante Continuous 2nd January



Ex-Ante Market Analysis

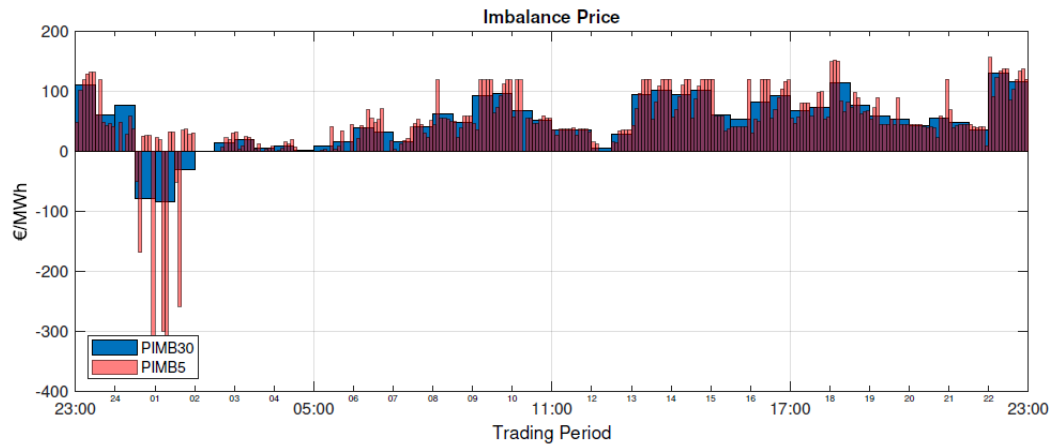
- In Summary
 - ✓ High Prices observed in Ex-Ante markets were expected
 - ✓ Wind fundamentals a major driver
 - ✓ Processes are working

Agenda

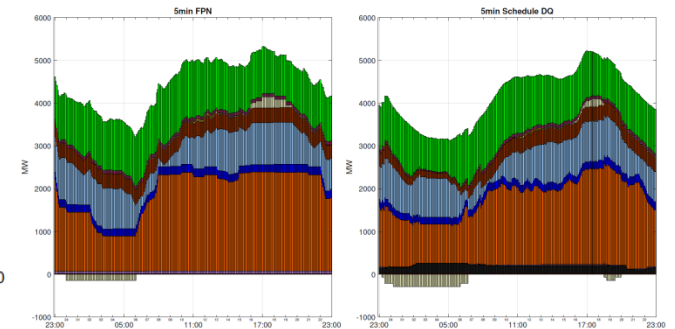
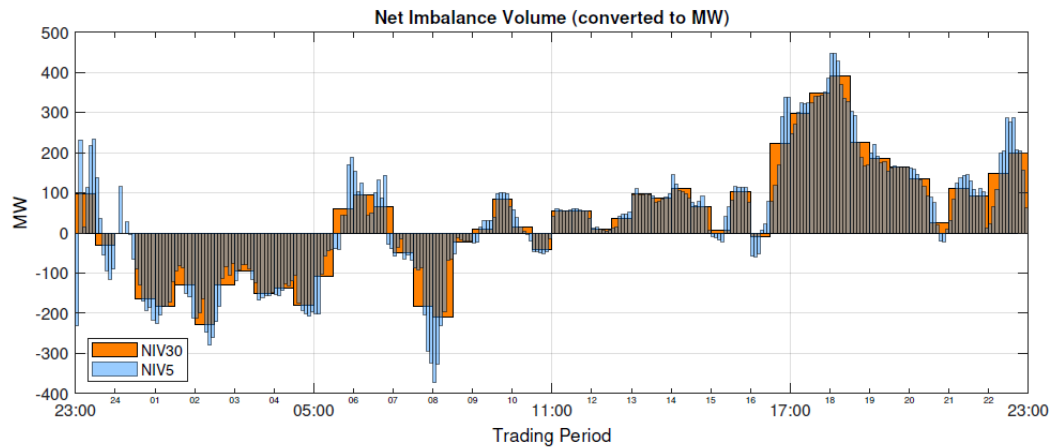
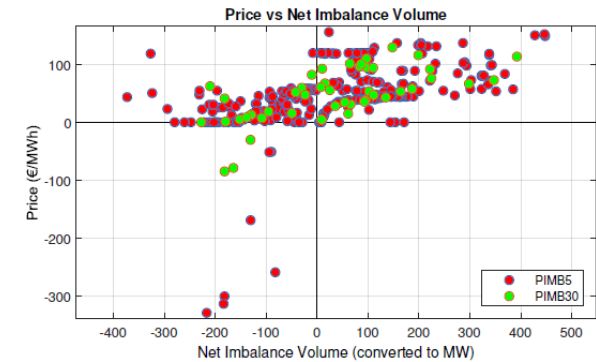
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REMIT & Urgent Market Messages Update	Severin Garanzuay
Query Management	Claire Breslin
Q&A	

Balancing Market

Imbalance Price Summary for: 24-Dec-2018

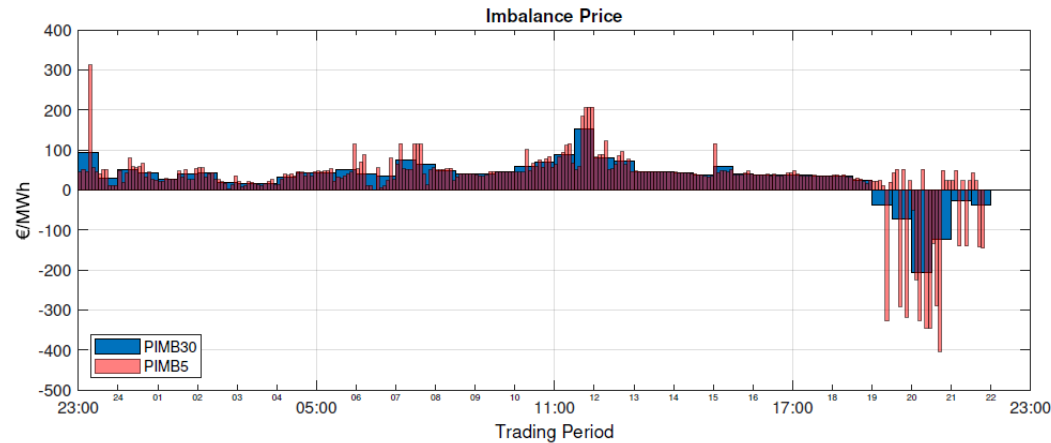


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	-329.17	-84.88	-31.09	-18.95
Mean:	47.39	48.05	2.71	2.73
Max:	155.75	129.33	37.31	32.70
StDev:	59.72	45.46	12.81	12.19

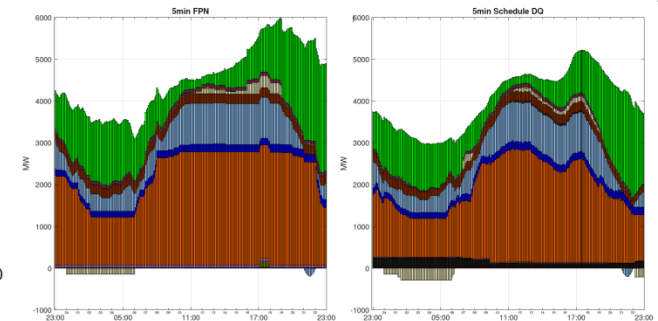
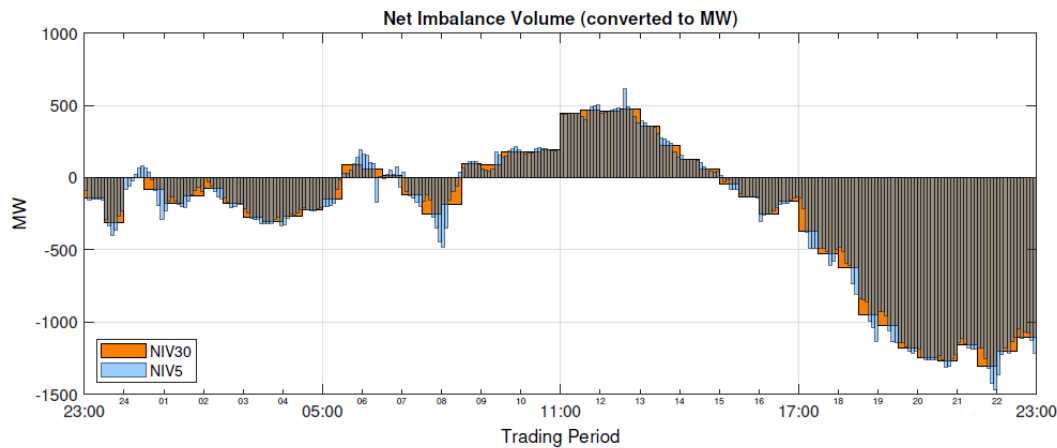
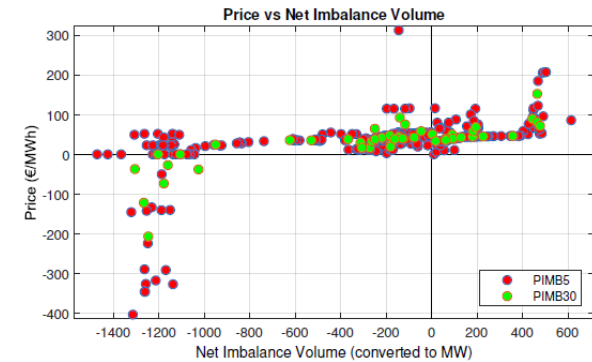


Balancing Market

Imbalance Price Summary for: 28-Dec-2018

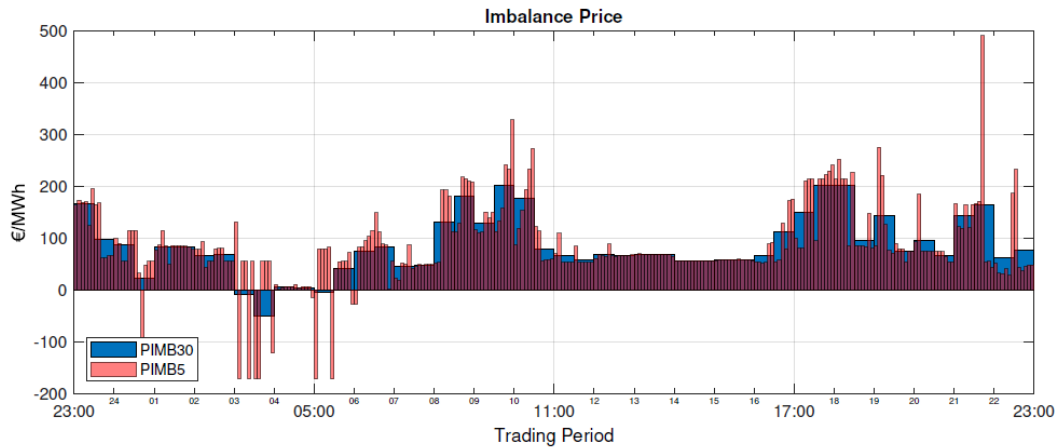


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	-403.83	-206.89	-122.59	-108.75
Mean:	29.58	29.58	-20.58	-20.58
Max:	312.65	152.35	51.15	39.72
StDev:	75.80	54.79	42.12	42.13

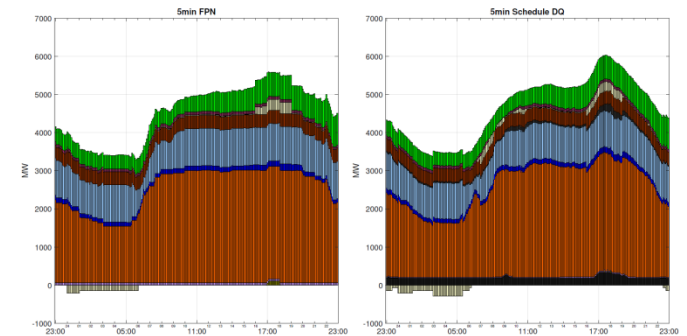
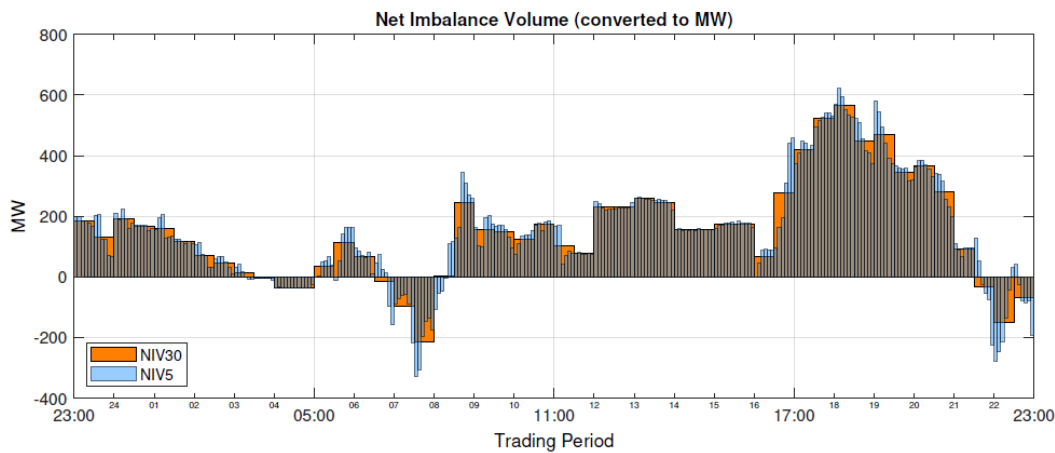
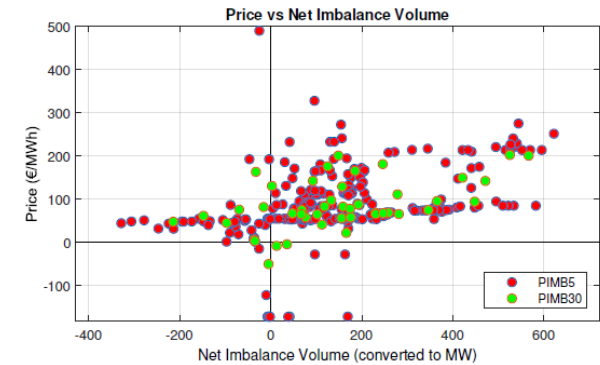


Balancing Market

Imbalance Price Summary for: 03-Jan-2019

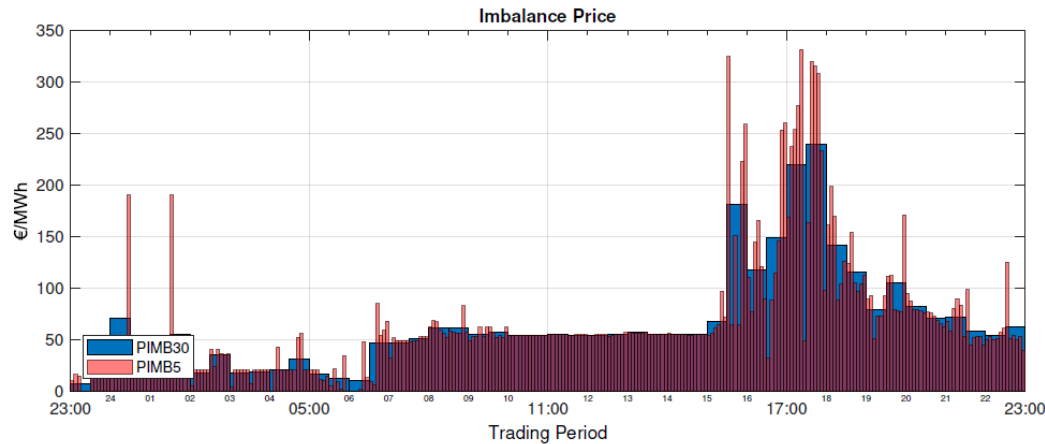


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	-172.33	-50.35	-27.38	-17.85
Mean:	84.74	84.74	12.44	12.44
Max:	490.00	202.29	51.80	47.19
StDev:	76.47	56.74	14.46	14.01

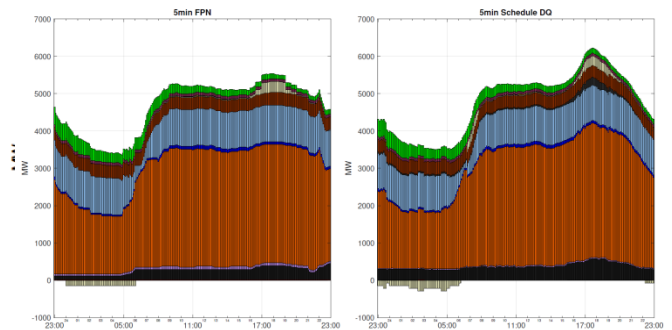
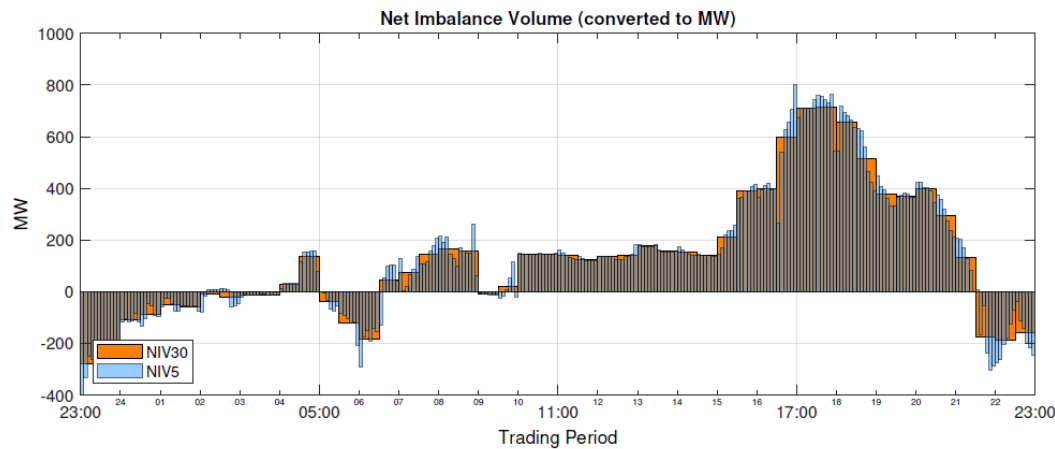
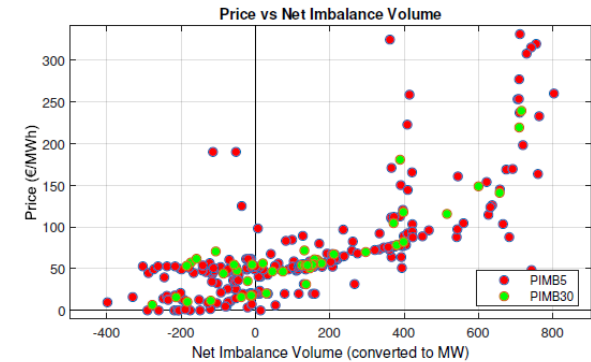


Balancing Market

Imbalance Price Summary for: 09-Jan-2019

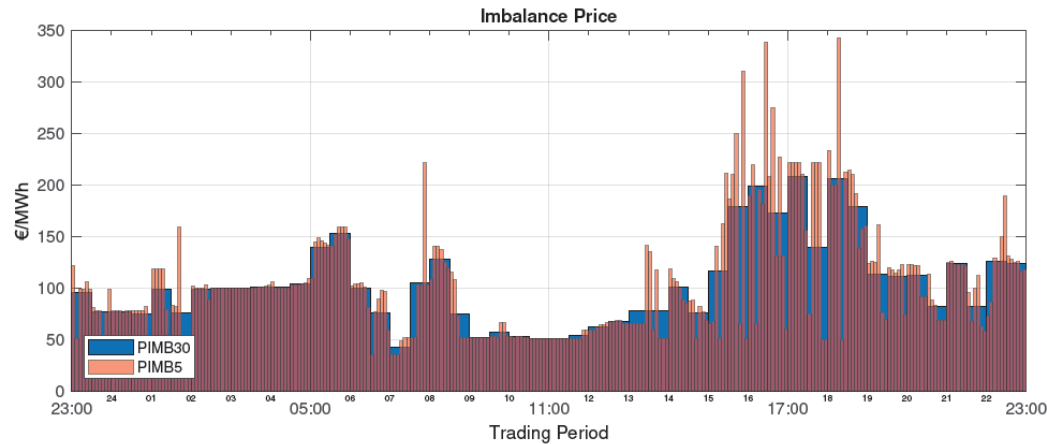


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	0.00	6.67	-33.20	-23.14
Mean:	65.64	65.64	10.92	10.92
Max:	331.18	239.35	66.91	59.63
StDev:	58.21	49.66	20.41	20.17

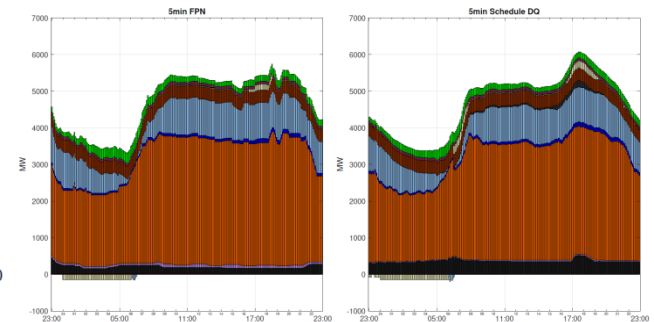
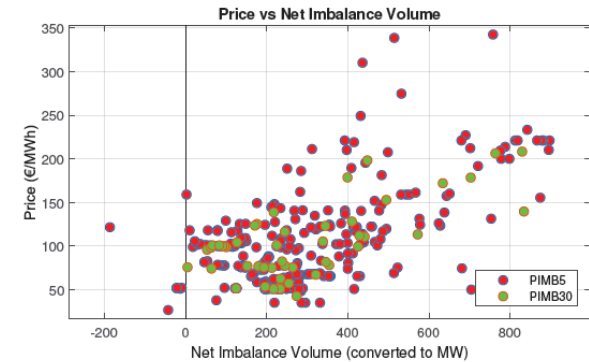
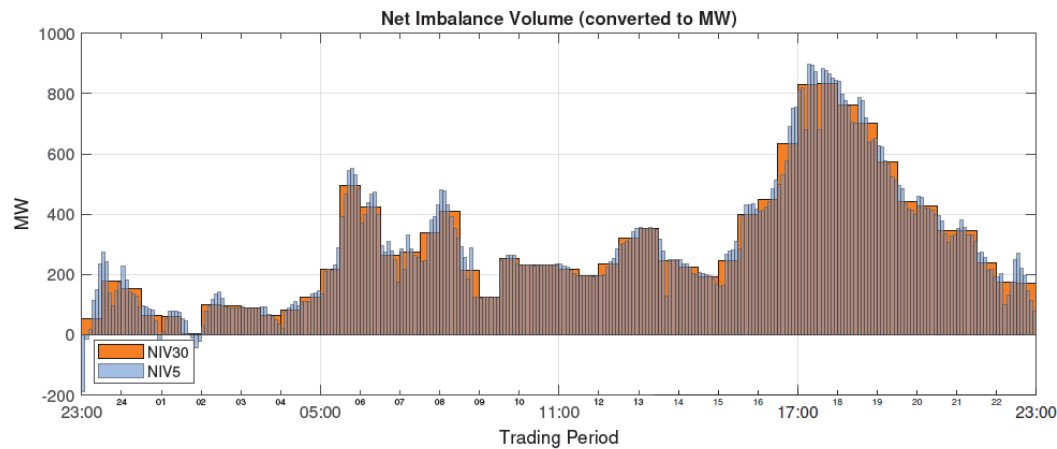


Balancing Market

Imbalance Price Summary for: 10-Jan-2019

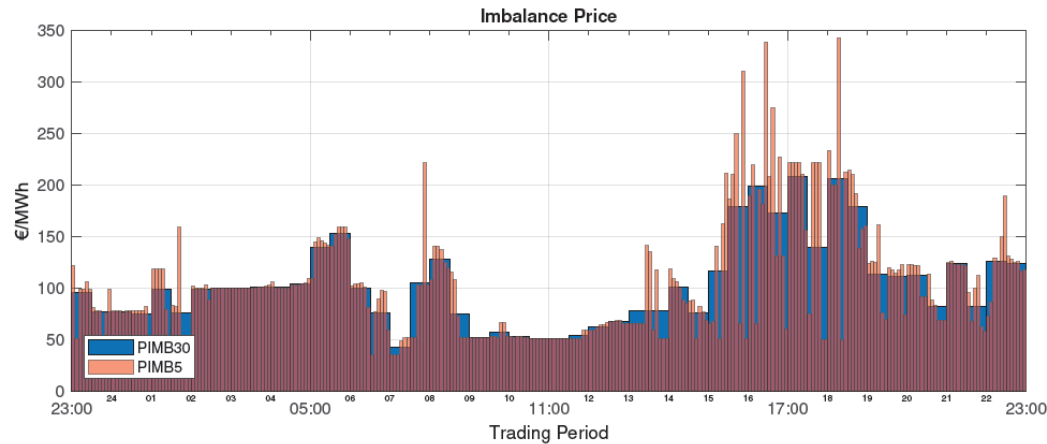


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	26.59	42.68	-15.56	0.38
Mean:	103.46	103.46	24.50	24.50
Max:	342.53	208.30	74.77	69.50
StDev:	53.60	42.24	17.34	17.03

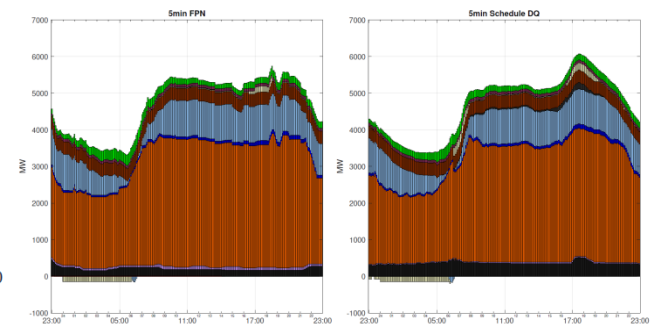
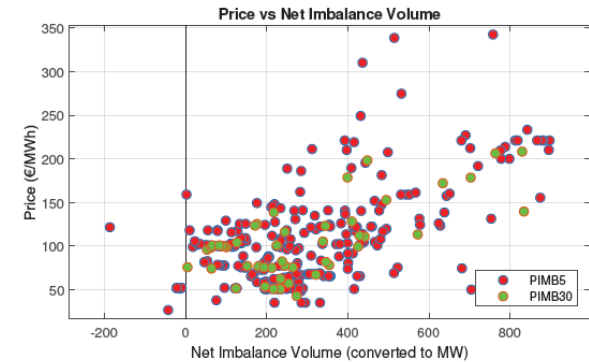
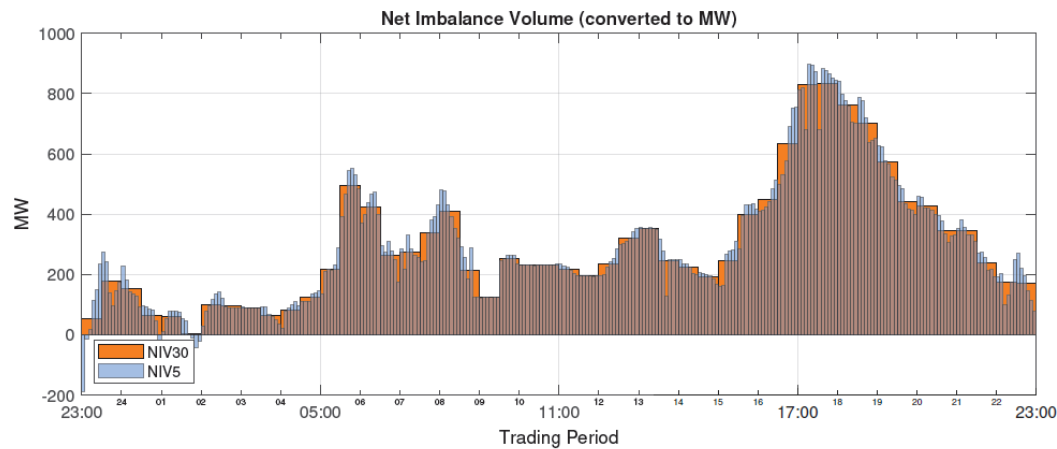


Balancing Market

Imbalance Price Summary for: 10-Jan-2019

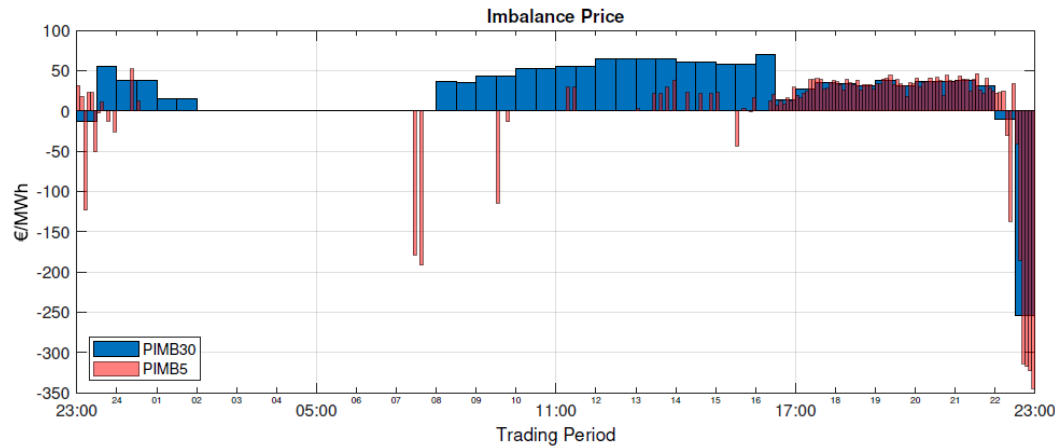


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	26.59	42.68	-15.56	0.38
Mean:	103.46	103.46	24.50	24.50
Max:	342.53	208.30	74.77	69.50
StDev:	53.60	42.24	17.34	17.03

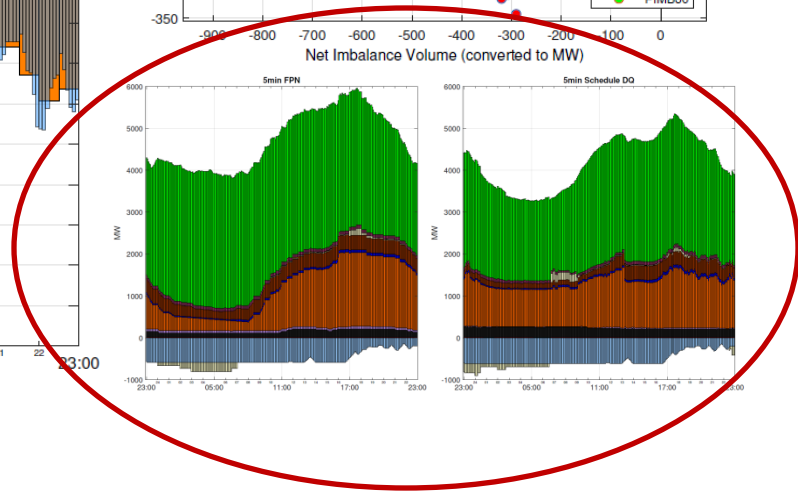
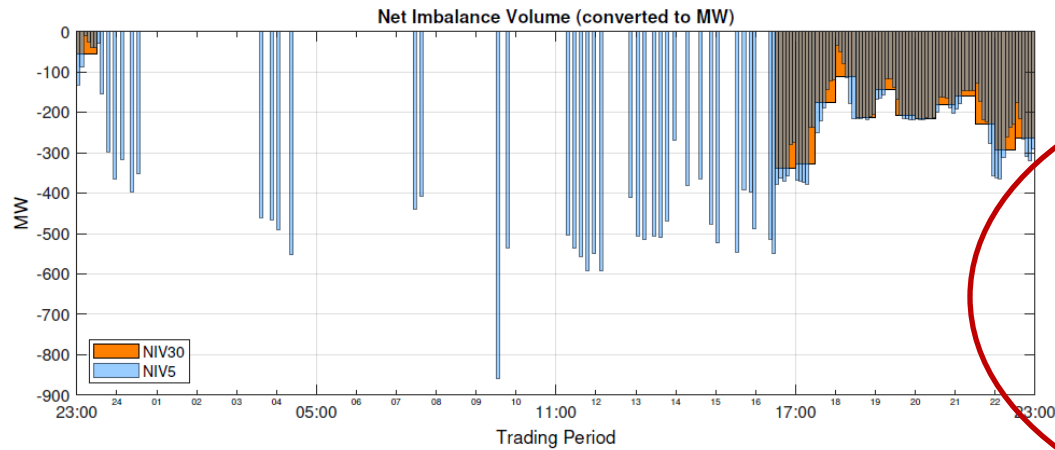
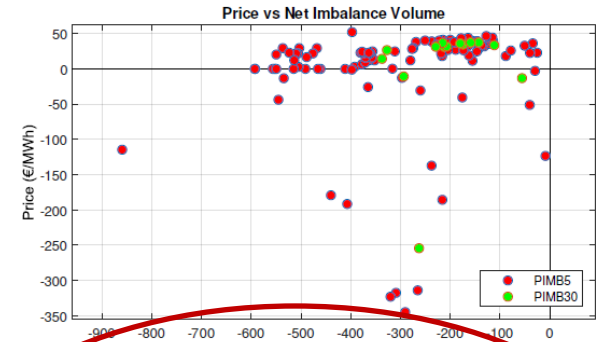


Balancing Market

Imbalance Price Summary for: 13-Jan-2019

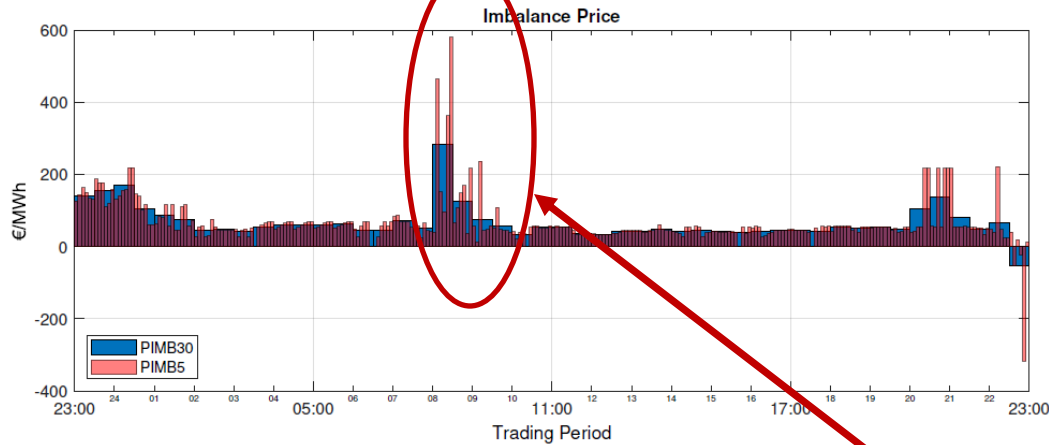


	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	-344.82	-254.21	-71.64	-28.12
Mean:	1.99	24.48	-23.73	-17.33
Max:	52.15	69.87	-0.73	-4.66
StDev:	74.36	47.89	12.98	6.65

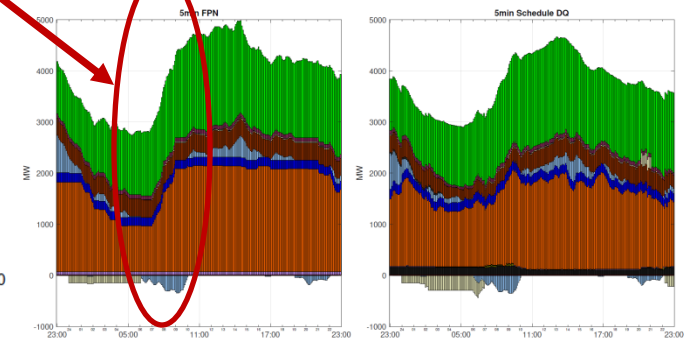
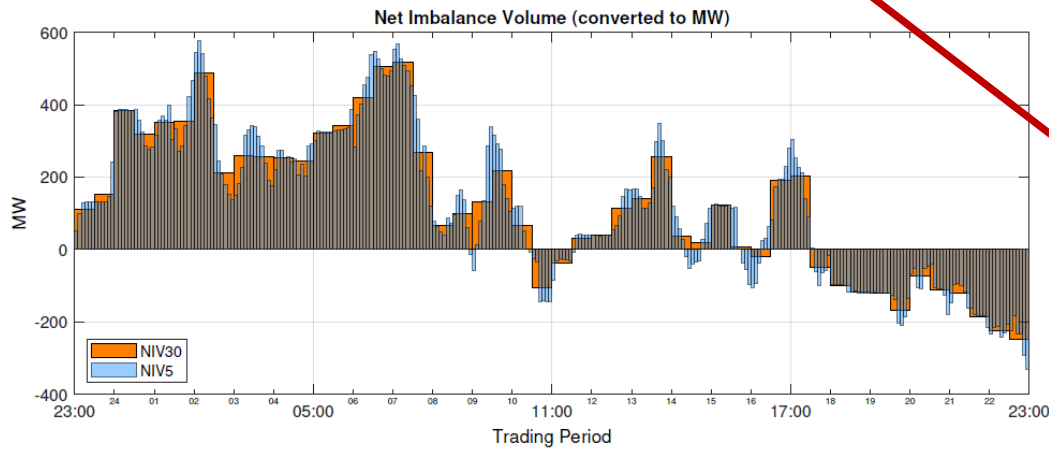
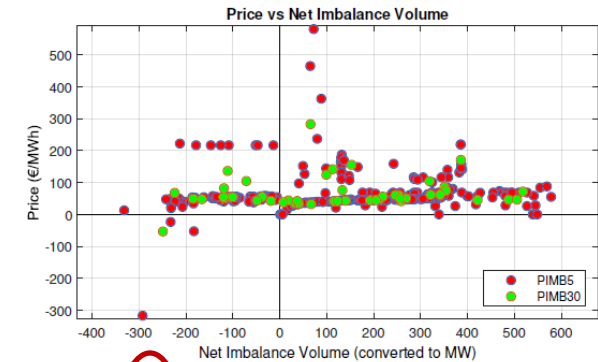


Balancing Market

Imbalance Price Summary for: 25-Dec-2018



	PIMB5 (€/MWh)	PIMB30 (€/MWh)	NIV5 (MWh)	NIV30 (MWh)
Min:	-317.25	-53.47	-27.62	-20.75
Mean:	66.52	66.52	10.13	10.13
Max:	580.51	282.67	48.14	43.13
StDev:	65.64	48.65	17.15	16.74



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Q&A	

Disputes & Repricing Update

Fixed in System

- Negative Reserve
- Exchange Rate
- Non Controllable Wind QBOAs
- Incorrect QBOA for a decommissioned unit
- Incorrect QBOA for a Unit

Open Defect

- QBOAs dropping out
- Complex COD being used instead of Simple COD
- Incorrect Dispatch Instructions for a Unit feeding into pricing
- Initial Conditions being incorrectly applied
- Cancelled Dispatch Instructions with a 'Not Accepted' status being processed

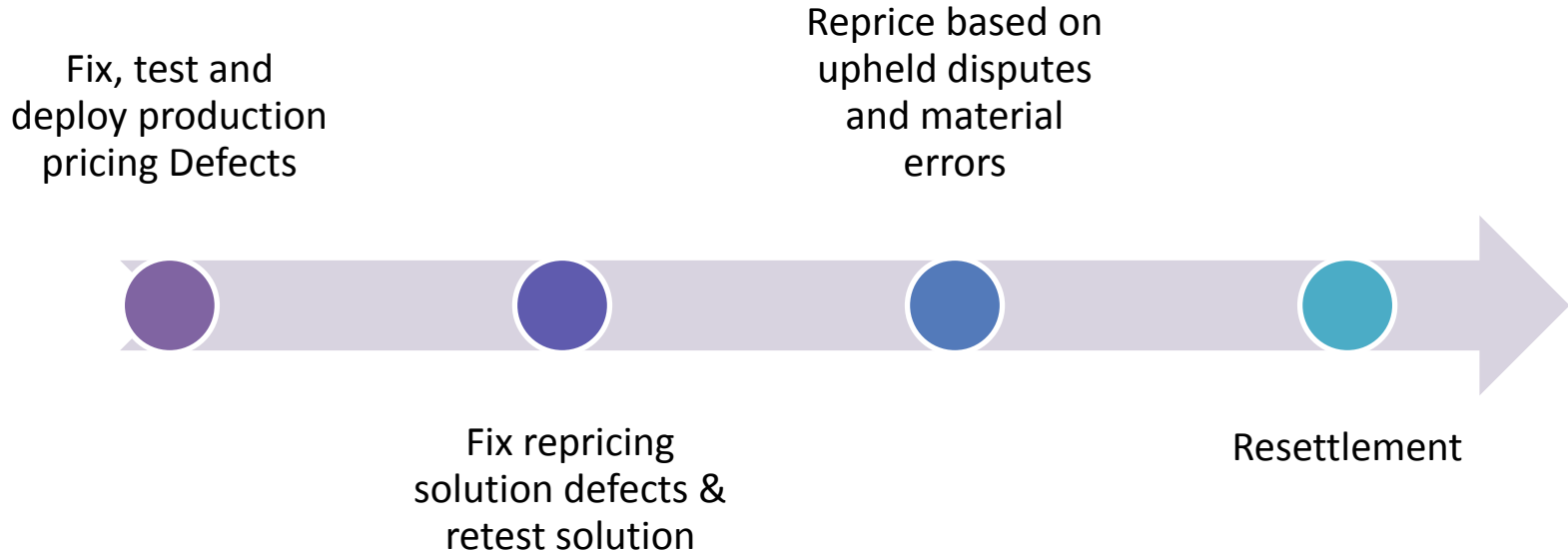
Impacted Dates

Dates which are currently disputed/manifest errors identified:

- 01/10/2018 – 24/10/2018
- 27/10/2018 – 29/10/2018
- 01/11/2018 – 15/01/2019

It is expected that further disputes will be submitted until the existing identified manifest errors have been resolved in pricing.

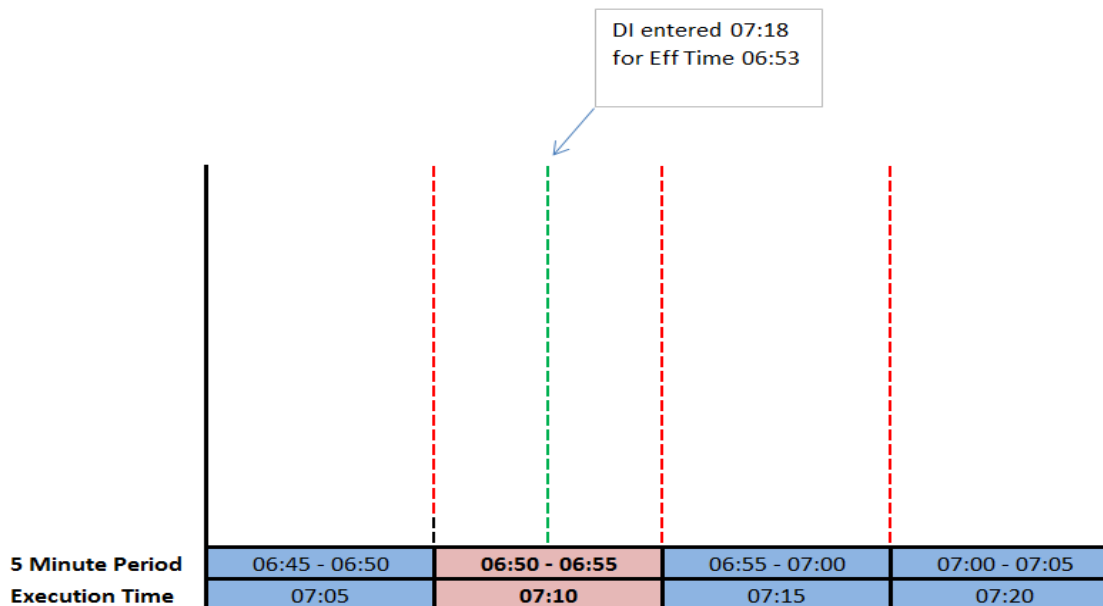
Repricing Solution Next Steps



Note: The updated repricing solution will be developed in parallel with the resolution of existing production defects

Pricing Issues

- Upheld Dispute 22nd to 28th December 2018
- TRIP Instruction for effective time 06:53 not entered into the system until 07:18. This was after the 5 minute Imbalance Price Period for 06:50 to 06:55.
- **Fix:** A MWOFF OMW was entered into the system on 28th December to resolve the issue



Pricing Issues

- Upheld Dispute 23rd to 28th December
- Cancelled Dispatch Instructions with a status 'Not Accepted' are being processed within pricing. The result is that the **unit remains at its previously instructed level.**
- **Fix:** A MWOFF to 0MW was entered into the system on the 28th December.
- A defect has been raised and is with the vendor for analysis (KIR ID #5831).
- A workaround is in development to mitigate the impact of this issue, while the defect remains open.

Pricing Issues

- Upheld Dispute 28th to 29th December
- A DESYNC instruction was not applied in pricing, causing the unit to stay at its previously instructed output.
- **Fix:** A MWOFF to 0MW was entered into the system on the 29th December.
- This is with the vendor for analysis. Our initial studies indicate that this may a different manifestation of defect #5817.

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Settlements : December data key process updates

Settlement Dates	Run Category	Run Type	Runs completed	On Time	Delayed – Same Day publication	Delayed - > 1 Day
1 st – 31 st	Settlements	Indicative	31	14	5	12
1 st – 31 st	Settlements	Initial	31	16	6	9
1 st – 31 st	Settlement Documents	Weekly	4	3	0	1
1 st – 31 st	Credit Reports	Daily	51	51	0	0
1 st – 31 st	Payments In	Weekly	4	4	0	0
1 st – 31 st	Payments Out	Weekly	4	4	0	0

Main notes on **December** processing schedule:

- Settlement documents due to publish December 14th : Issue with initials for the 6th & 7th December
- Additional pro-active analysis required for a period of time on December Initial data
- Increase of non-working days over Christmas period – additional catch-up days
- Sequence of settlement runs : Current dependency on each run to publish before continuing to next run

Settlements : January data key process updates

Settlement Dates	Run Category	Run Type	Runs completed	On Time	Delayed – Same Day publication	Delayed - > 1 Day
1 st – 16 th	Settlements	Indicative	14	6	3	5
1 st – 16 th	Settlements	Initial	8	3	4	1
1 st – 11 th	Settlement Documents	Weekly	3	3	0	0
1 st – 16 th	Credit Reports	Daily	31	31	0	0
1 st – 16 th	Payments In	Weekly	3	3	0	0
1 st – 16 th	Payments Out	Weekly	3	3	0	0

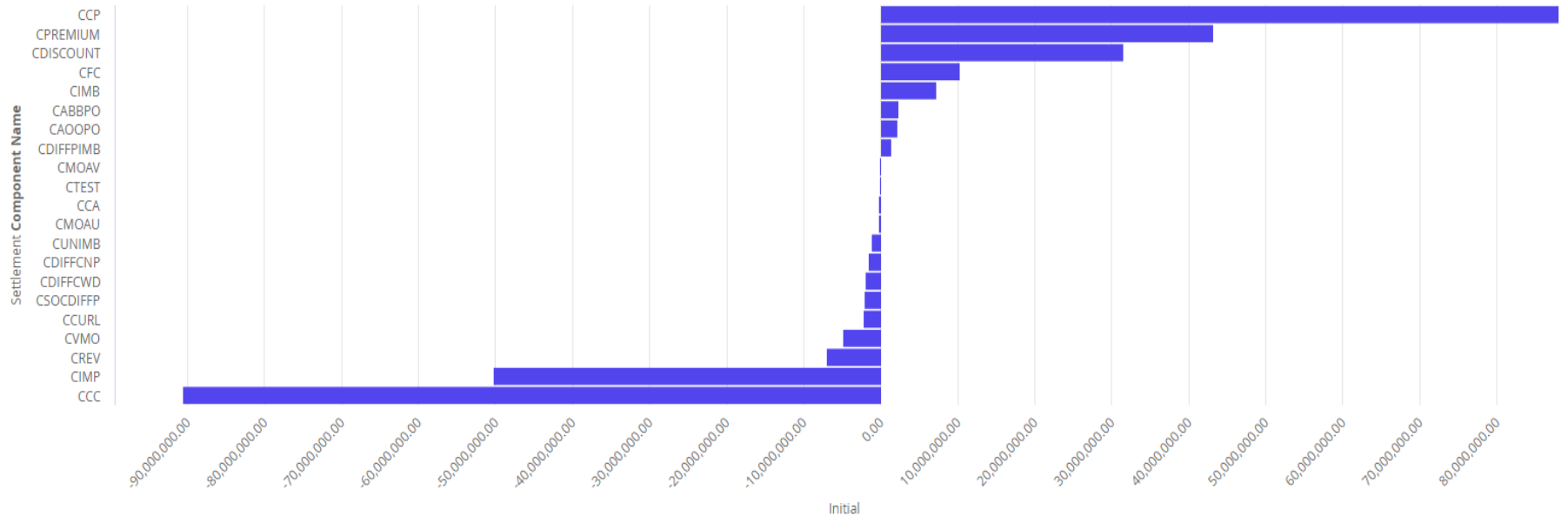
Main notes on **January** processing schedule:

- Additional pro-active analysis required for a period of time on December Initial data, impact to Jan indicative timelines
- Reduced analysis/monitoring required on January Initial data before publication
- Sequence of settlement runs : Current dependency on each run to publish before continuing to next run
- Concurrent billing in test: Due to release with Jan 2019 release

Settlements : M+4 Resettlement

- First M+4 period of Sep 30th – Oct 6th due to be published Jan 24th (Settlement documents to issue Jan 25th)
- Following on from updates re: “I-SEM Day 1+, High-Level Indicative Release Timeline” & Repricing solutions
 - M+4 will include:
 - Updated Metering received from MDPs
 - Hotfixes applied since Oct 1st
 - M+4 will exclude:
 - Release due end of Jan 2019
 - Pricing resettlement
- Settlement Calendar updated with M+4 dates
- Planning for future ad-hoc resettlement dependent on Day 1+ releases / repricing timelines

Settlements Total Cashflow



Settlement Component Name	Settlement Sum Charge (Initial)
CCP	€ 88,006,094.06
CPREMIUM	€ 43,548,326.97
CDISCOUNT	€ 31,657,333.79
CFC	€ 10,249,275.85
CIMB	€ 7,130,739.40
CABBPO	€ 2,399,283.66
CAOOPO	€ 2,184,797.98
CDIFFPIMB	€ 1,353,064.19
CMOAV	-€ 5,866.21
CTEST	-€ 78,431.38
CCA	-€ 148,809.68
CMOAU	-€ 224,426.12
CUNIMB	-€ 1,104,657.10
CDIFFCNP	-€ 1,476,623.15
CDIFFCWD	-€ 1,922,011.73
CSOCDIFFP	-€ 2,081,543.19
CCURL	-€ 2,225,042.31
CVMO	-€ 4,841,655.17
CREV	-€ 7,081,943.58
CIMP	-€ 50,749,879.48
CCC	-€ 88,501,877.83
Total	€ 24,372,528.62

Net Payment to Participants

24,372,528.62

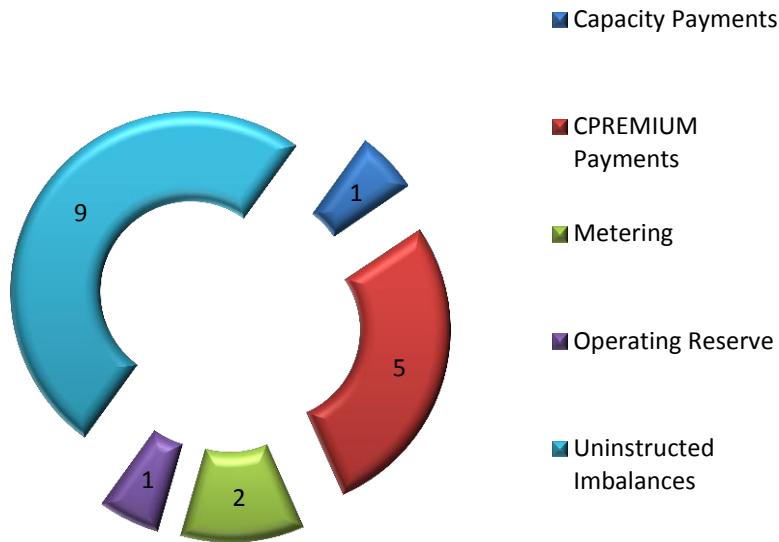
M4 Re-settlement Material Hotfixes

Description	Drop Date	Release Status	Impact
Difference Charges calculation – CDIFFCTWD	08/10/2018	Deployed 10/10	QAOCDIFFCTWD is not calculated correct if the quantity is based on QAOs. Changing logic from a MAX to a MIN
Charge Components CPREMIUM, CDISCOUNT are not calculated for DSU	19/10/2018	Deployed 23/10	Mapping of charge components to DSU accounts
DSU Reliable Option Update	23/10/2018	Deployed 24/10	DSU capacity has been retrospectively corrected in certain situation
Difference Charge calculation for Within Day charges (QDIFFCTWD)	25/10/2018	Deployed 30/10	CDIFFTRACKB incorrect therefore charges not accurate

➤ Additionally, M+4 Metering changes from the MDPs will impact resettlement

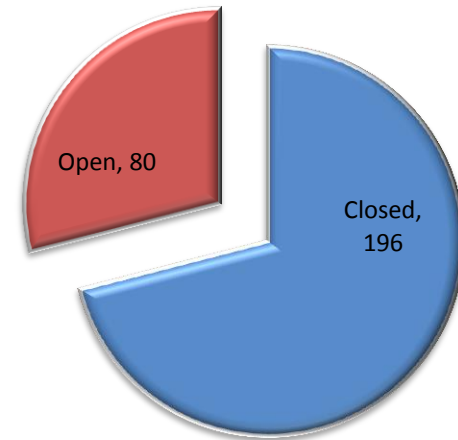
Settlement Query Statistics

Open Formal Settlement Queries

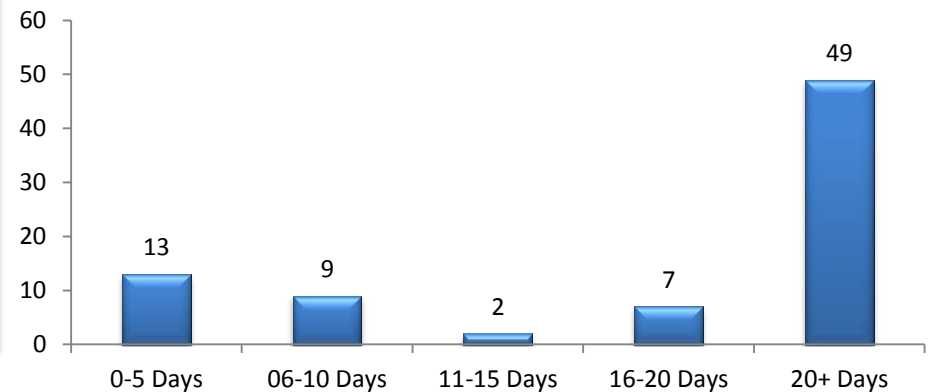


85 Completed Formal Queries out of a Total of 103 (83%)

General Queries



Open Queries - Days Open



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REMIT & Urgent Market Messages Update

SEMOPx REMIT reporting to ACER is now operational.

Date Range	Status
01 Oct 18 -> 20 Nov 18	Reporting complete
21 Nov 18 -> 08 Jan 19	Reporting in progress. Updates forthcoming
09 Jan 19 -> Present	Reporting complete.

EirGrid evaluation of **UMM Platform** underway. Additional details forthcoming as available. Engaged with various service providers (and internal Dev Ops) .

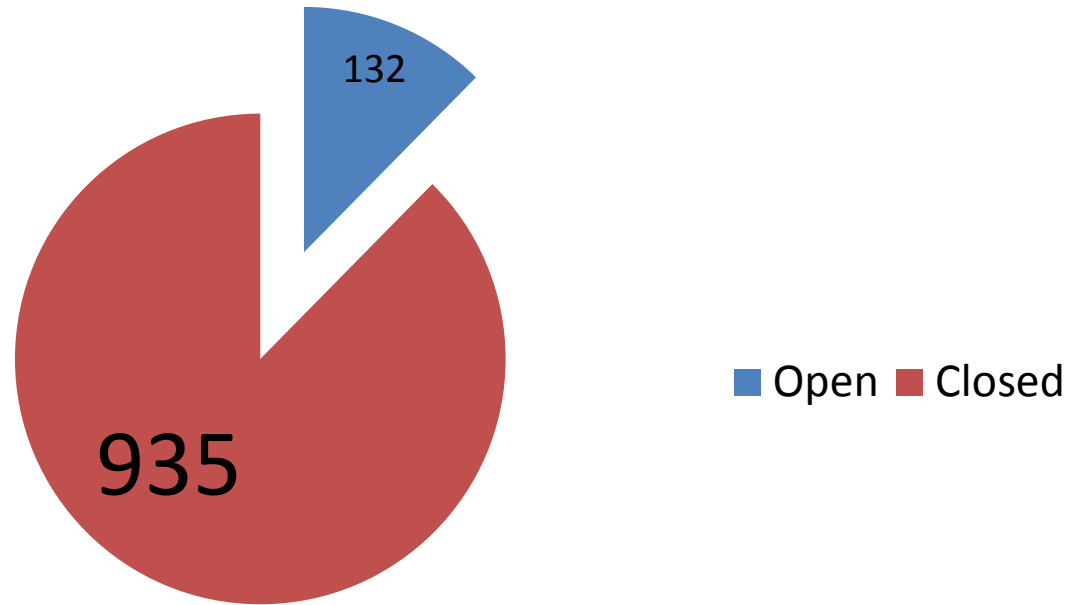
Market Participants still required to meet obligations until EirGrid solution available.



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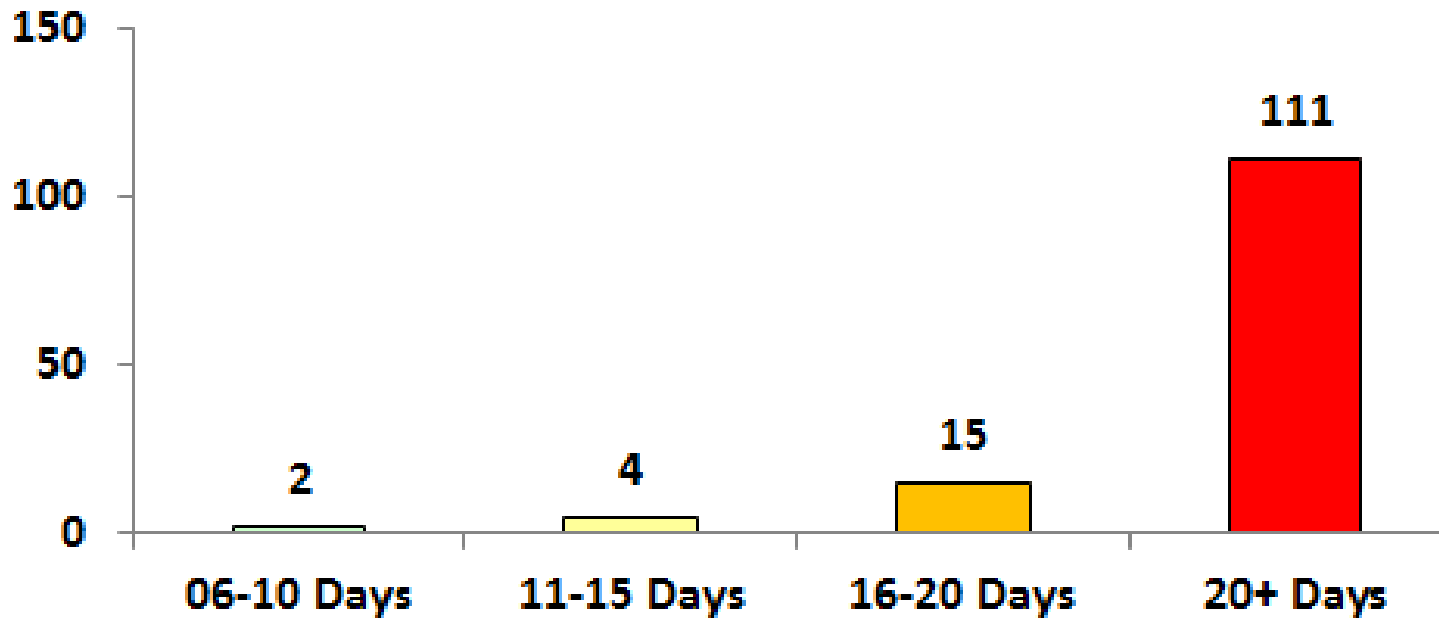
General Query Status – From Oct 2018



18% Decrease on open queries

General Query Status – From Oct 2018

Days Taken to close Queries since 1st Oct



Total Open - 132

Formal Queries and Disputes

Disputes:

Received in total: 53

In progress: 8 (including 4 escalated to the DRB)

Completed: 45

Formal Settlement Queries:

Received in total : **101**

Completed: 81

In progress: 20

Change of LCF Contact Number

The **LCF Offer Data Procedure - Participant Guide v1.2** contains the updated LCF Hotline Number +44 (0) 28 90 707415 as well as links to the **LCF_Tool_1-1**.

The **LCF_Tool_1-1** contains a bug fix to allow Participants to generate xml files containing Offer Data Submissions.

Both of these revised publications can be found within the [General Publications](#) section of the SEMO Website.

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Close

- SEMO Website: <http://www.sem-o.com/>
- Semopx Website: <http://www.semopx.com/>
- Queries: Info@sem-o.com; Info@semopx.com

Thank you for your attendance.