Market Operator User Group

Dublin, 11 September 2019

# Agenda

Item	Presenter
Welcome	**Anne Fitzgerald**
Known Issues and Release Update	David Lee
Ex-Ante Market	Michael Atcheson, Liam McAllister
Balancing Market	John Ging, Rory Cafferky
Repricing Update	Julie McGee
Settlements	Claire Kane, Sean O'Rourke, John O'Dea
Query Management	Claire Breslin
Q&A	

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

- ABB release A deployed to production Tuesday 29th January
- ABB release B (MA 26 / CSB 1.2.2) deployed to production on 26th of March 2019
- ABB release C (MMS 1.1.8.1 / CSB 1.2.4) deployed to production 11th of June 2019
- ABB release D (MMS 1.1.9) is currently in test with target date to production ~mid October
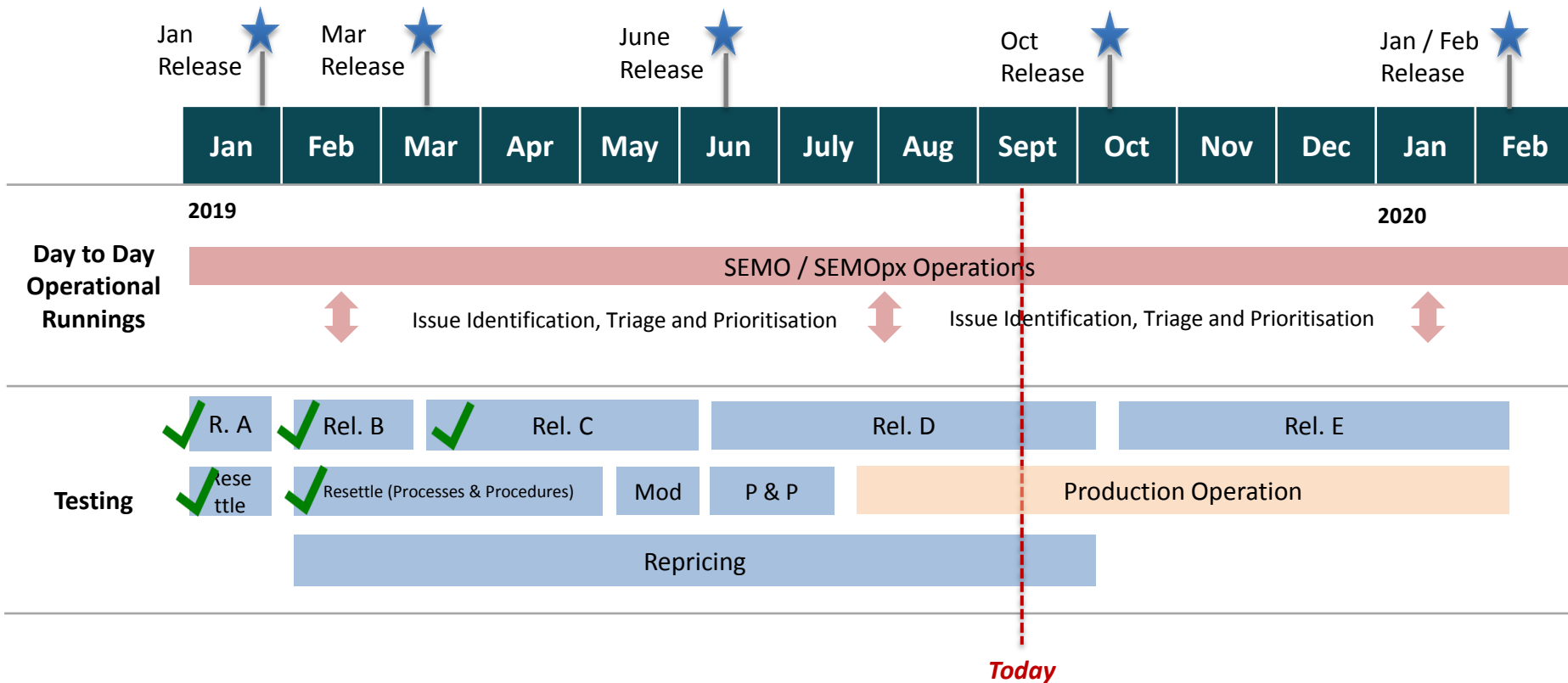
Known Issues Update – Summary (1 of 2)

- 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 ✔	Deployed to production on the 29th of January 2019	14 Issues	• 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 ✔	Deployed to Production on the 26th of March 2019	4 Issues	• Improvements to QBOA function including resolution to units being skipped • Improved resettlement and repricing functionality • Hotfixes were deployed to address difference charges for Interconnectors and supplier units • Bill case optimisation
Hotfixes ✔	Ad Hoc deployments to Release B	2 issues	• Multiple unit PN submissions with units under test • M+4 optimisation hotfix • QBOA Optimisation Hotfix • 30 Minute imbalance price not being produced (in test

Known Issues Update – Summary (2 of 2)

- 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 C	Deployed to Production 11th of June 2019	26 Issues	• Fixes for Reports highlighted as priorities from participants • Incorrect MW QTY values in REPT_078/079 • CFC improvements • Improvements to the QBOA function • Consolidation of hotfixes
Release D	In Test	11 issues	• Improvement to CFC • REPT_042 Net Interconnector schedule incorrectly calculated • Repricing Functionality • Access to participant reports before reg date
Release E	In Vendor Build	15 issues	• Application of DMAT in Imbalance Pricing • FX rate for northern units • QBOA improvements • Incorrect application of LOCL/CRLO instructions • REPT_082 publishing data for de registered units

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Ex-Ante Markets

- Volumes from ex-ante (11th July – 31st Aug)

  Using approx. prices

Market	Value	% of DAM
DAM	€246,269,945	
IDA1	€17,593,622	7.14%
IDA2	€7,694,391	3.12%
IDA3	€2,571,545	1.04%
IDC	€2,458,839	1.00%
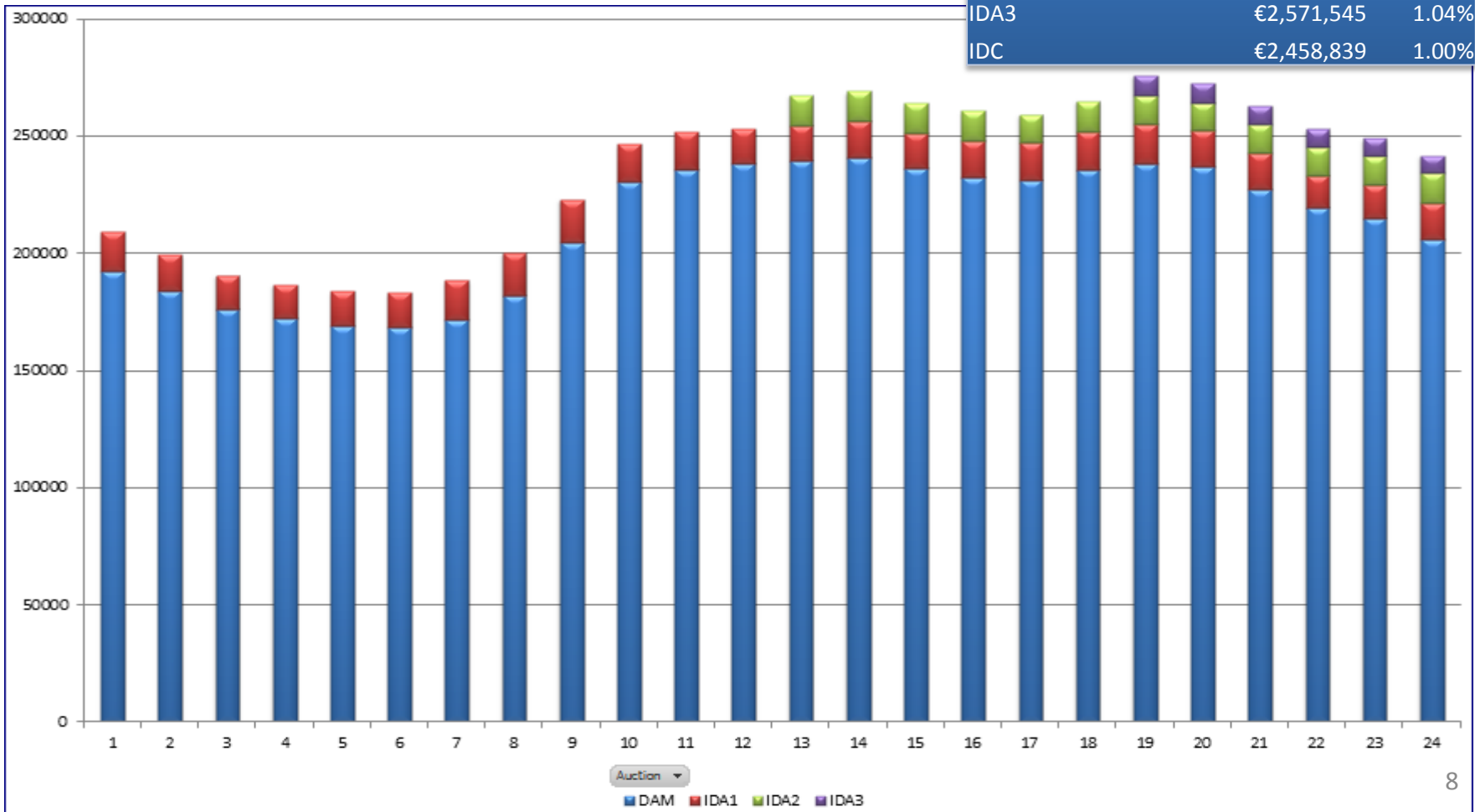
Ex-Ante Auction Price Look Back - PRICES
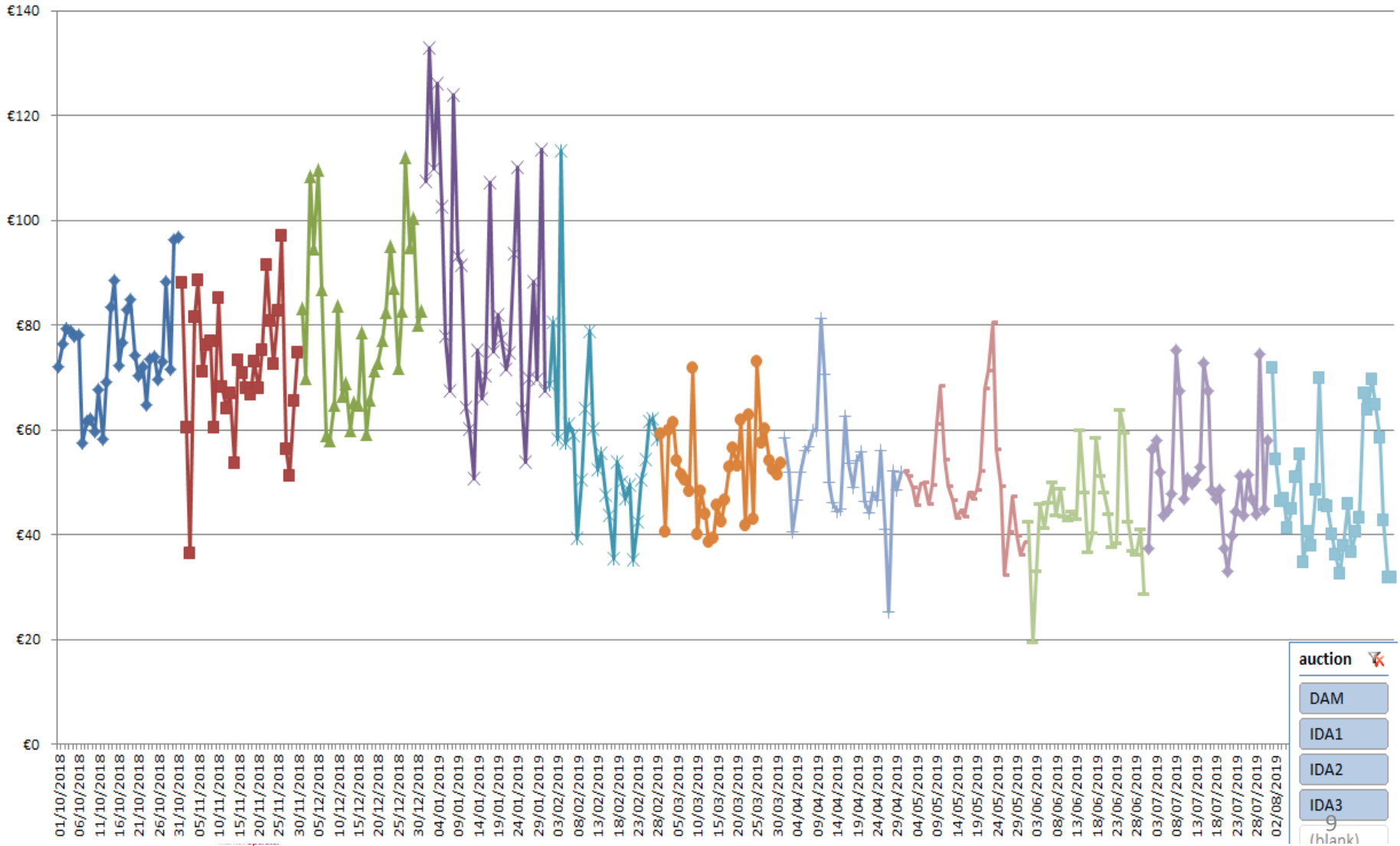
Ex-Ante Auction Price Look Back - VOLUMES

semo

Affected Period:	15/08/2019
Status:	Open
Category:	European Transparency
Run Type:	N/A
Created	15/08/2019 11:40
Last updated	15/08/2019 11:41

Update to the REMIT report published on the EirGrid Website under customer-and-industry/general-customer-information/outage-information

Whitegate WG1 (GU_400930) is currently on forced outage with an estimated return to service time of 23:00 on the 15th August.
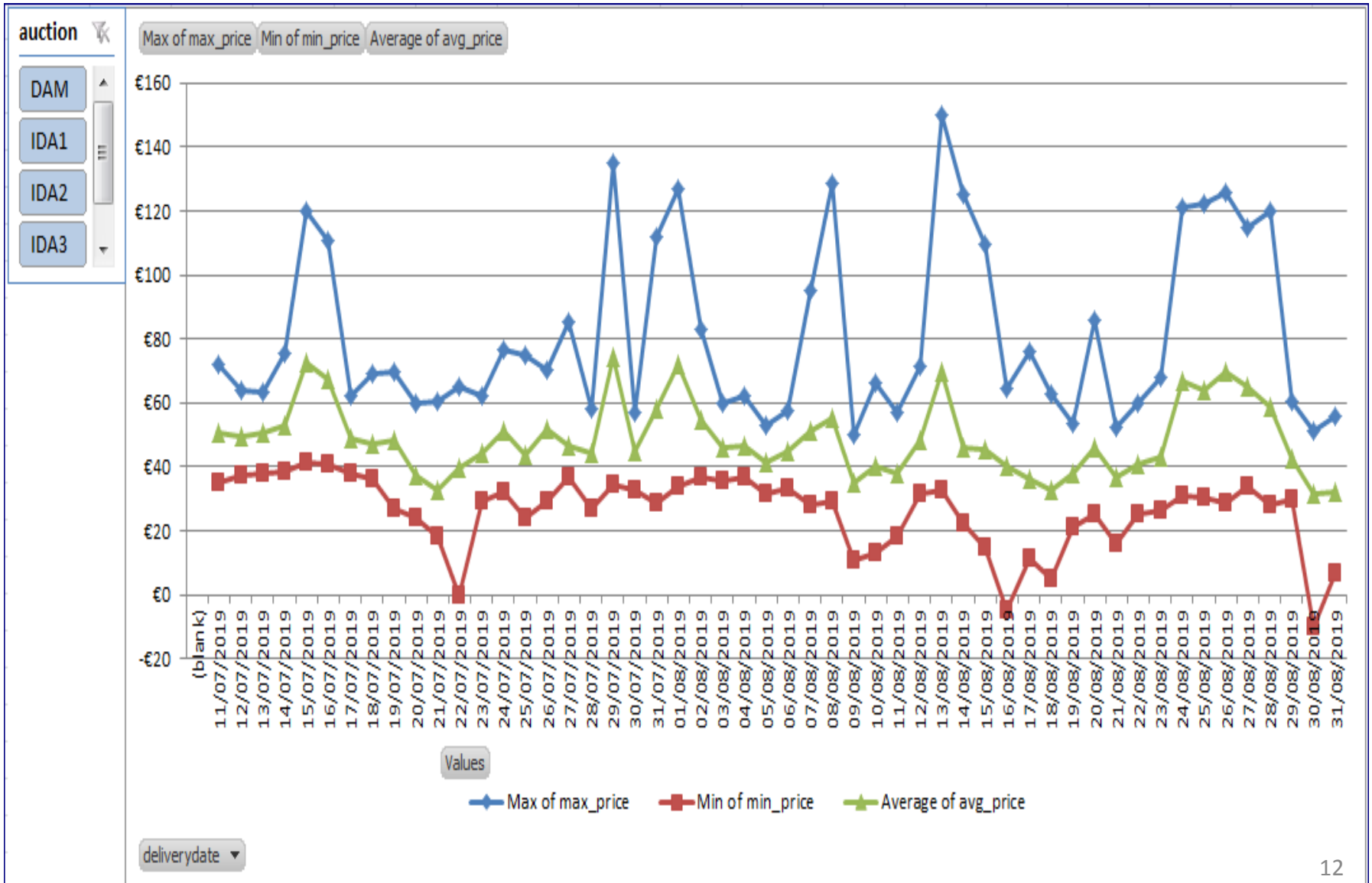
Ex-Ante Auction Price Look Back

Ex-Ante Auction Price Look Back

semopx
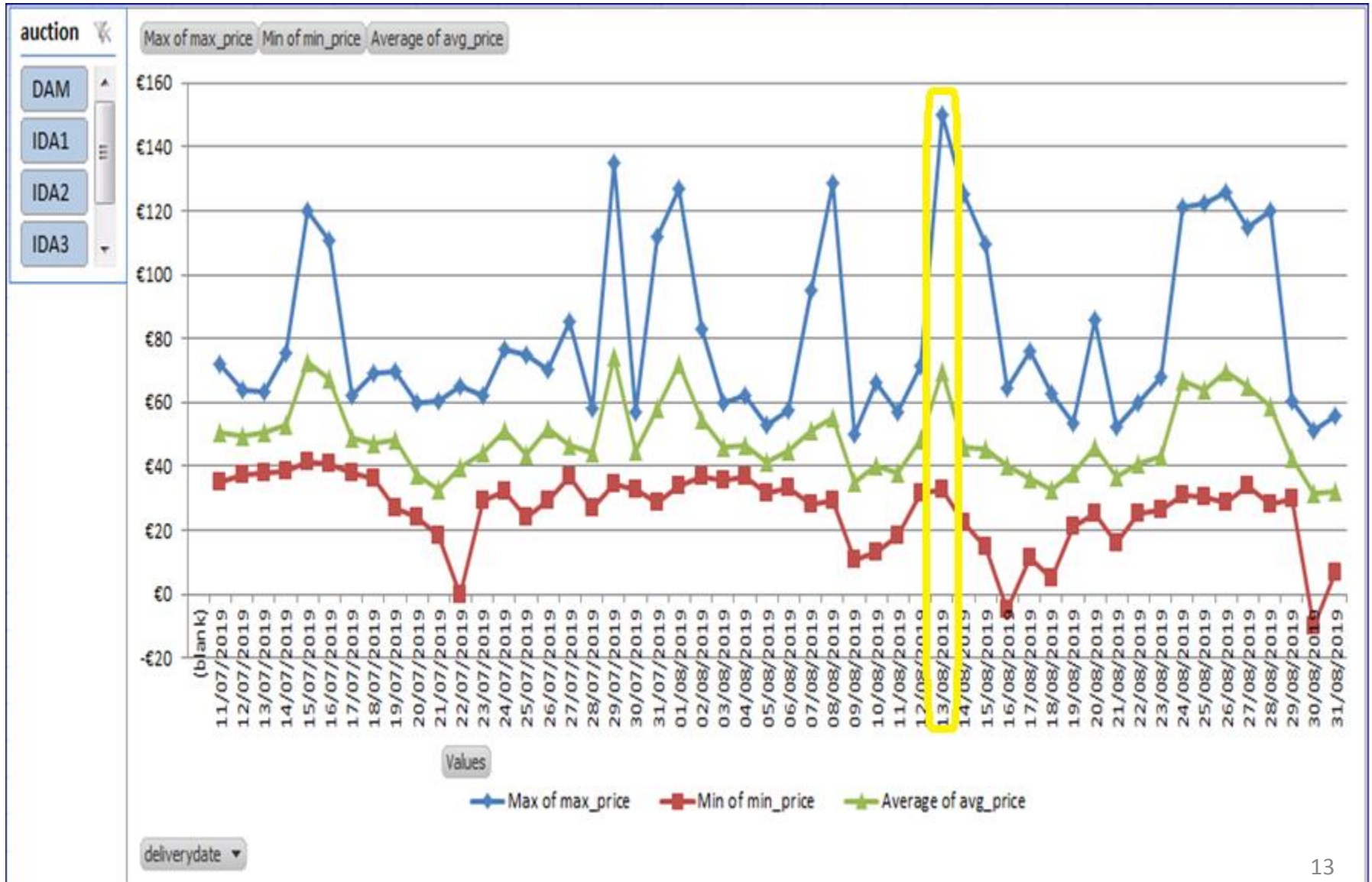
Ex-Ante Day Ahead & Intra-day Market Analysis

Overview | Market Structure | Analysis

Auction Summary

2019-08-13

Auction Stats [Hi | Lo | Avg | MWh | €]

Date	Auction	Hi	Lo	Avg	MWh	€
2019-08-13	DAM	€96.00	€32.45	€57.65	96.312	€5.552.673
2019-08-13	IDA1	€111.00	€35.59	€65.43	10.284	€672.815
2019-08-13	IDA2	€105.01	€40.83	€72.68	1.250	€90.833
2019-08-13	IDA3	€150.00	€60.83	€106.62	202	€21.559

Forecast, Actual Wind v Demand – All Island
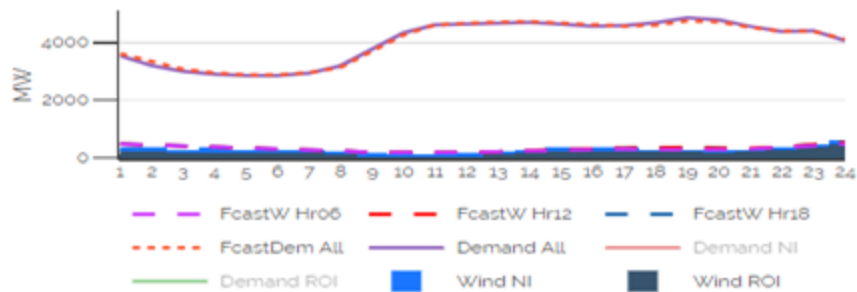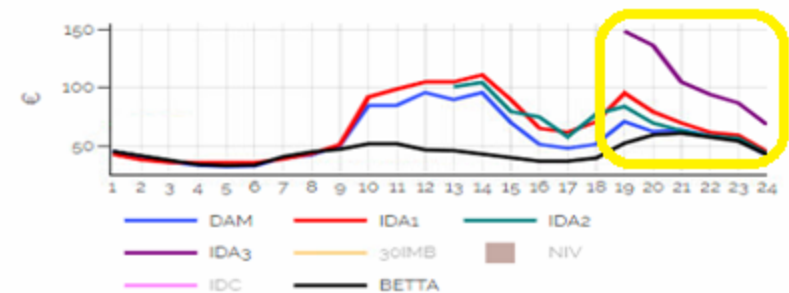
Legend: FcastW Hr06, FcastW Hr12, FcastW Hr18, FcastDem All, Demand All, Demand NI, Demand ROI, Wind NI, Wind ROI

Auction Pricing

Legend: DAM, IDA1, IDA2, IDA3, 30IMB, NIV, IDC, BETTA

Forecast, Actual Wind v Demand – N.I.

Legend: FcastW Hr06, FcastW Hr12, FcastW Hr18, Demand All, FcastDem NI, Demand NI, Demand ROI, Wind NI, Wind ROI

Interconnector Flows

Legend: EWIC, MOYLE

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Choose Auction

DAM — IDA1 — IDA2 — IDA3

19   20   21   22   23   24

2019-08-13 ▼   HH1 ▼

Historical Prices

— DAM   — IDA1   — IDA2

Structure

€150.0

● Bids   ● Offers €
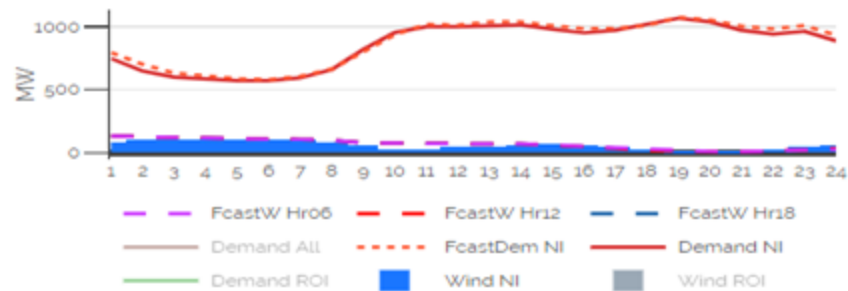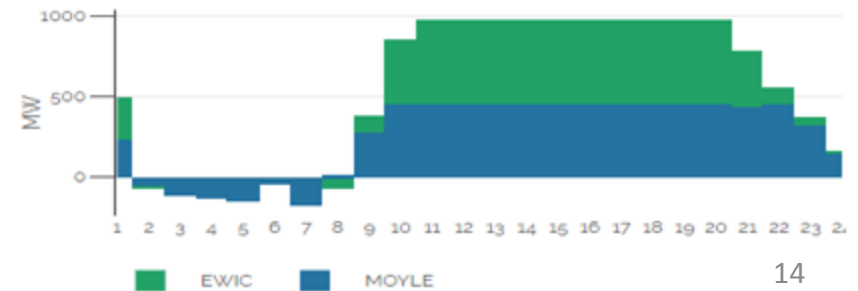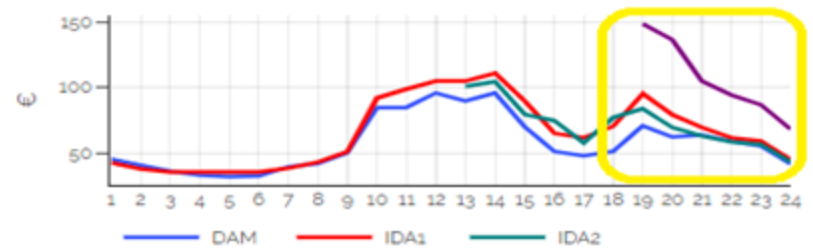
Auction Book

Bids	Price	Offers
3.30	€1,500.00	-945.40
	€1,499.00	-450.00
	€999.00	-350.00
	€500.00	-80.00
	€499.75	-50.00
	€499.50	-50.00

Auction Participants

DeliveryDate	auction	Participant	DeliveryHour	DeliveryInterval	unitid	ExecutedVol	area_sub_from
filter data...							
2019-08-13	IDA3	▮	19	2	▮	2.9	ROI-EIRGRID-IDA3
2019-08-13	IDA3	▮	19	2	▮	2.5	ROI-EIRGRID-IDA3
2019-08-13	IDA3	▮	19	2	▮	1.7	ROI-EIRGRID-IDA3
2019-08-13	IDA3	▮	19	2	▮	1.3	ROI-EIRGRID-IDA3

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Ex-Ante IDC Price Look Back - RECALLS

	deliverydat	isinCod	deliveryhour	deliveryin	participant	balGrp	tranTim	ordrBuyC	tradMtch(	tradMtchf	taking	tranTypCc	tranIdNo
1	2019-07-17	20190717 07:30-20190717 08:00	10	2			06:25:38.796+02:00	B	5	102.7	Y	R	
2	2019-07-17	20190717 07:30-20190717 08:00	10	2			06:25:38.796+02:00	S	5	102.7	N	R	
3	2019-07-17	20190717 07:30-20190717 08:00	10	2			06:26:06.721+02:00	B	1.8	442	N	R	
4	2019-07-17	20190717 07:30-20190717 08:00	10	2			06:26:06.721+02:00	S	1.8	442	Y	R	
5	2019-07-17	20190717 07:30-20190717 08:00	10	2			06:27:16.549+02:00	B	20	94	Y	R	
6	2019-07-17	20190717 07:30-20190717 08:00	10	2			06:27:16.549+02:00	S	20	94	N	R	

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Ex-Ante IDC Price Look Back - RECALLS
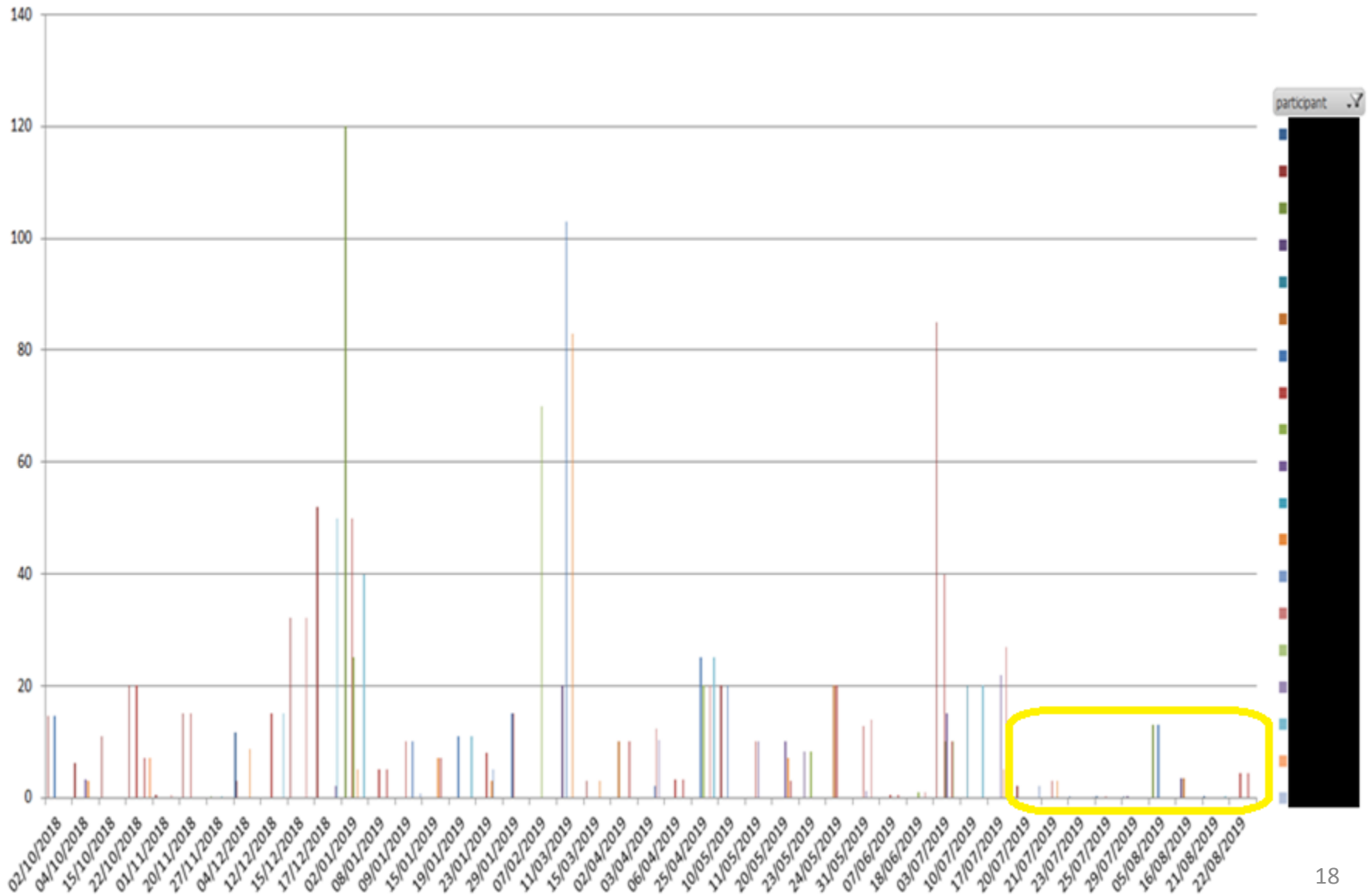
Ex-Ante Market Analysis

- **In Summary**
- ✓ SEMOpx markets are orderly
- ✓ Processes are working!

ETS Release Schedule

Version	Content	Client type	Impact	Timeline
V3.3.2	• Introduction of unique trade and trader ID • Start & End Date on ETS Portfolios • Additonal monitoring function for MO	MO and Trader client	Format of the market results file and the bid file will change. Impact on Market Participants. Impact on SEMOpx Auction Remit files.	19th of November 2019 Technical Go-Live 1st trading date 20th of November.
V3.4	Introduction of block bid submission graph in the trader GUI Trading Session Automation	MO and Trader client	Currently no impact for SEMOpx members	End of 2019, Q1 2020.

M7 Release Schedule

Version	Content	Impact	Timeline
V6.7	No functional changes for SEMOpx	This has no impact on SEMO as only AOT products are impacted. Change in DBAG password policy, passwords will expire every 90 days. Members can reset them anytime before expiry via the ComTrader login screen to reset the 90 day countdown. Email will be sent 10 days before expiration to remind each user. If a password expires, an email with a reset link will be sent. Now includes REPORT users New Comtrader 6.7.90104 available (optional for SEMOpx) but recommended to use the latest version	10th of September 18:00-23:00 BST
V6.8		WebStart Comtrader to be discontinued due to changes in the support of Java	TBC

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Central Scenario for "No Deal" Brexit

- The **SEM will continue to operate as an all-island market in the event of a 'no deal' Brexit .**

- In a 'no-deal' Brexit scenario the implications for the day ahead and intraday cross border markets are:
  - *Day ahead market :*
    - An All island local day ahead market will continue
    - There will no longer be day ahead cross border trade

  - *Intraday market:*
    - Will continue as is, including cross border trade

- SEMOpx will work with relevant parties to implement new cross border arrangements, should they be needed, but this will not be available on day 1 post a 'no deal' Brexit.

- On day 1 **post a 'no deal' Brexit the key difference will be the removal of the cross border day ahead auction but all other elements of the trading arrangements will remain the same.**

- Further details on intended trading arrangements for the SEM under a 'no-deal' Brexit are provided in communications by the SEM Committee (the decision making authority for SEM matters) in a notice to industry and the Northern Ireland Utility Regulator in an information note. The Department for Business, Energy and Industrial Strategy has also published a Technical Notice to stakeholders in preparation for Brexit.

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Auction Timings and Trading Periods "As is"

The table below summarises the SEMOpx auctions:

Market Name	Gate Window Closure	Delivery Periods	Market Coupling
DAM	11:00 (D-1)	23:00 – 23:00 (24 * 1 hour)	Coupled with Europe
IDA – 1	17:30 (D-1)	23:00 – 23:00 (48 * ½ hour)	Coupled with GB
IDA – 2	08:00 (D)	11:00 – 23:00 (24 * ½ hour)	Coupled with GB
IDA – 3	14:00 (D)	17:00 – 23:00 (12 * ½ hour)	Local trading only

Auction Timings and Trading Periods "To Be"

On Day One

The table below summarises the SEMOpx auctions:

IC Capacity Transfers from DAM to IDAs

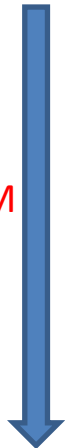| Market Name	Gate Window Closure	Delivery Periods	Market Coupling
DAM Local	11:00 (D-1)	23:00 – 23:00 (24 * 1 hour)	Isolated Local Auction with Zero IC capacity
IDA – 1	17:30 (D-1)	23:00 – 23:00 (48 * ½ hour)	Coupled with GB
IDA – 2	08:00 (D)	11:00 – 23:00 (24 * ½ hour)	Coupled with GB
IDA – 3	14:00 (D)	17:00 – 23:00 (12 * ½ hour)	Local trading only

SEMOpx Service Implications

- No functional changes to trading in Auctions or Continuous

- Products and result publication timings remain unchanged

- Post Coupling services (ECC Physical and Financial Settlement) remain unchanged

- Technical implementation will consist of:

    1. an interim solution with no MRC topology changes but no DAM coupling

    2. An enduring solution with permanent MRC topology changes and no DAM coupling
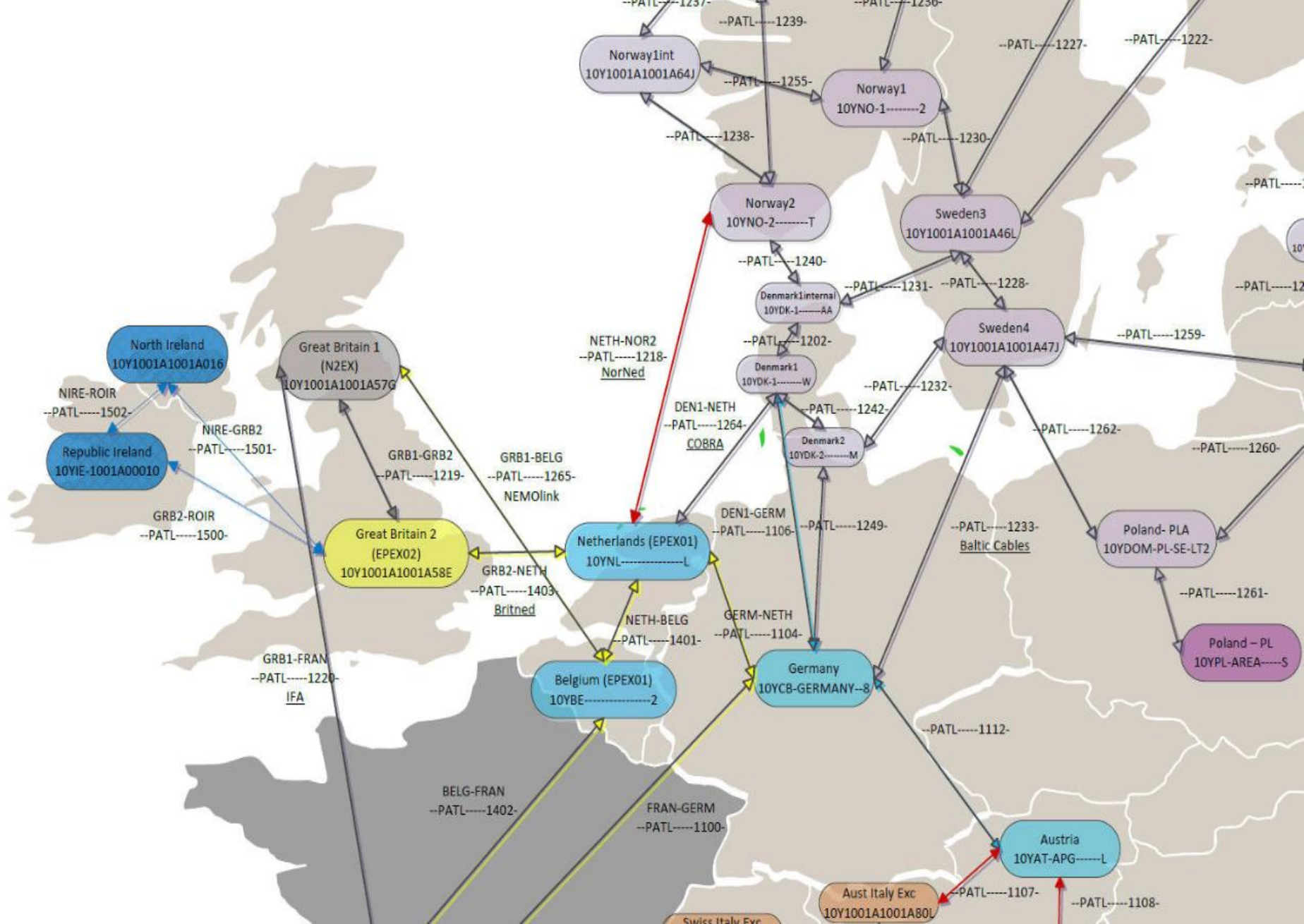
Phased Technical Solution for DAM

Context: In case of no-deal Brexit, the **two GB bidding zones** will be excluded from the MRC topology.
**Proposed Plan**
- An **Interim Solution** allows flexibility to retain existing DAM coupling should a no-deal Brexit be avoided.
- A move to the MRC agreed **Enduring Solution** (in approximately 6-8 weeks) after the Brexit date (currently 31/10/2019) has passed.

<u>**Interim Solution :**</u> Back Up Procedures

GB & IE/NI bidding zones will be decoupled from the MRC topology. EPEX will run both bidding zones as a Local Auction in Back up Mode.

<u>**Enduring Solution:**</u> Two separate local auctions GB/IE&NI

GB bidding zones are excluded from the MRC topology. SEMOpx and EPEX launch two separate local auctions.

MRC   SEM – GB
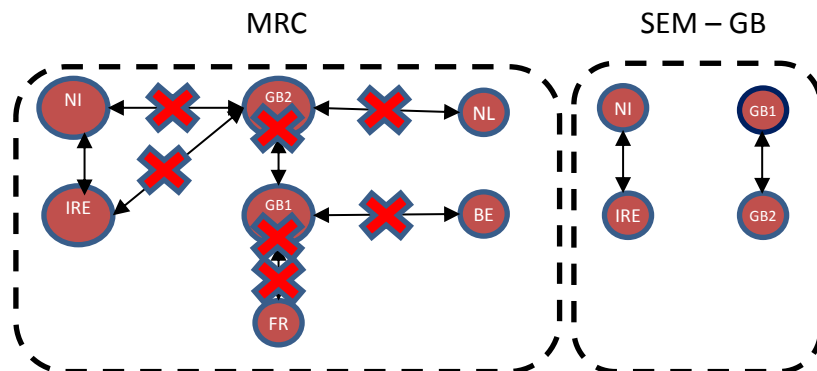
Schema representation applicable for both scenarios

Note: During both phases the SEM Ex-Ante markets will operate in the same way i.e. no coupling in the DAM, it is only the underlying technical solution that will change.

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Data issues impacting on System Operations

1. Submission of PNs that are outside of Real-Time availabilities submitted via EDIL, e.g.:

- PN < Lower Operating Limit (LOL)
- PN > Higher Operating Limit (HOL)
- PN within unit forbidden zone
- PN with no EDIL and/or MPI availability
- PN for retired units or units on long term outage – Default data

2. Failure to update MPI with revised availability (to match EDIL) Submission of invalid COD data for selected TOD set, e.g.:

- Commercial Offered Data for CCGT mode when unit is in OCGT mode

3. Failure to update MPI with revised availability (to match EDIL)

- Typically post tripping or during outages
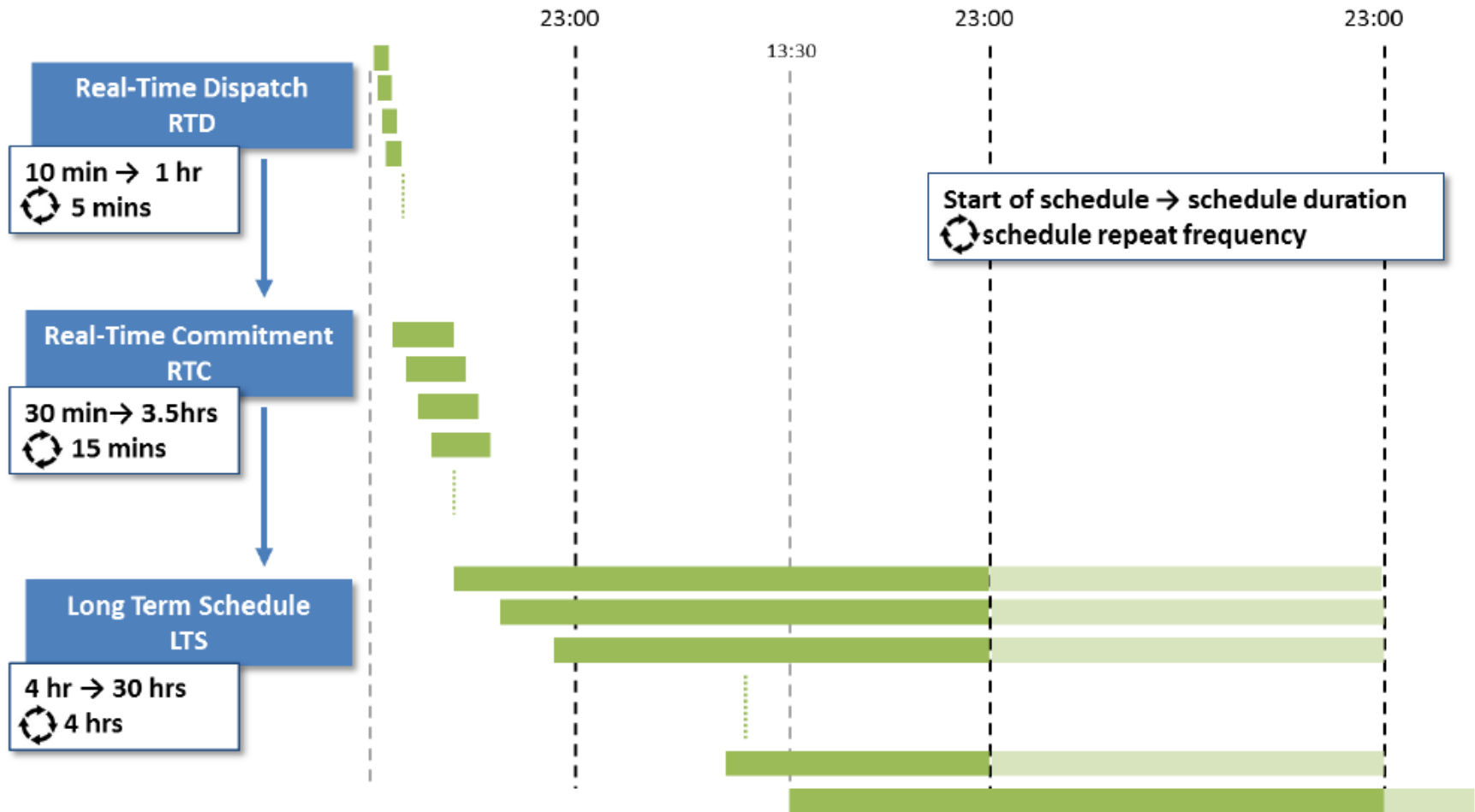- Ambient conditions
- Rounding to nearest Integer

4. Combined submissions for "Units under Test" and non-test units

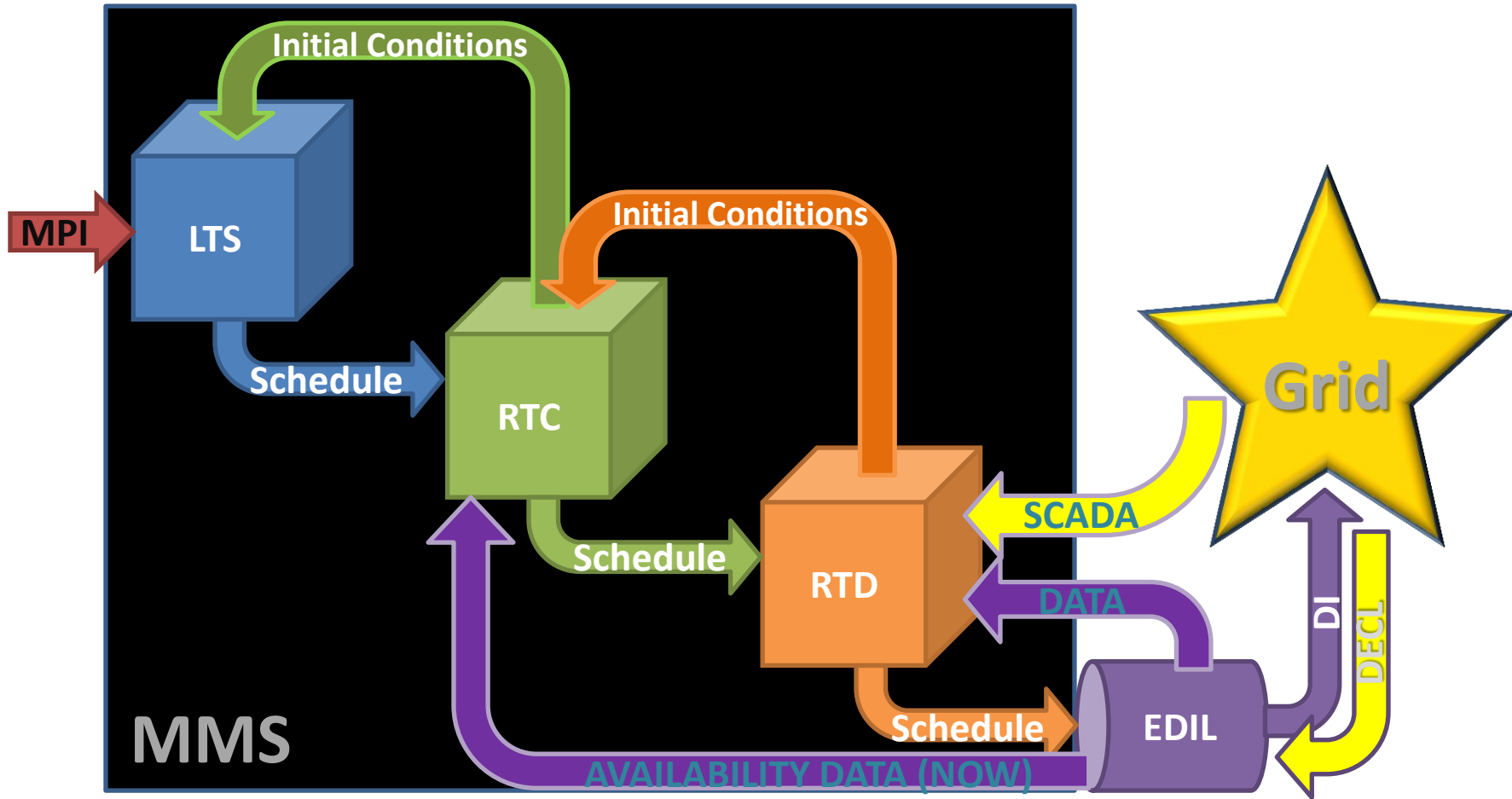- Treated as a single transaction which must be approved within short timeframes

5. Tertiary fuel

- Submission of availability on Tertiary fuel not accounted for in Market Design

Scheduler periodicity and horizons

MMS Data Flows – Forecasts for long term horizons

Obligations to declare availability

- Real Time Declared Availability (per EDIL)
- Forecast Availability (per MPI)
- EirGrid Grid Code and SONI Grid Code (SDC1 - SCHEDULING AND DISPATCH CODE)
  SDC1.4.1 states:
  - The **Availability Notice** shall state the **Availability** of the relevant **CDGU**, **Controllable PPM**, **Interconnector**, **Demand Side Unit** or **Pumped Storage Plant Demand** as the case may be, (including, in the case of a **CCGT Installation**, the **Availability** of each of the *CCGT Unit*s within it) for each **Imbalance Settlement Period** in the time up to and including the end of the relevant **Trading Day** (subject to revision under SDC1.4.3.6).
  - This shall be submitted not later than the **Gate Closure 1** each day (i.e. 13:30 on TD-1)
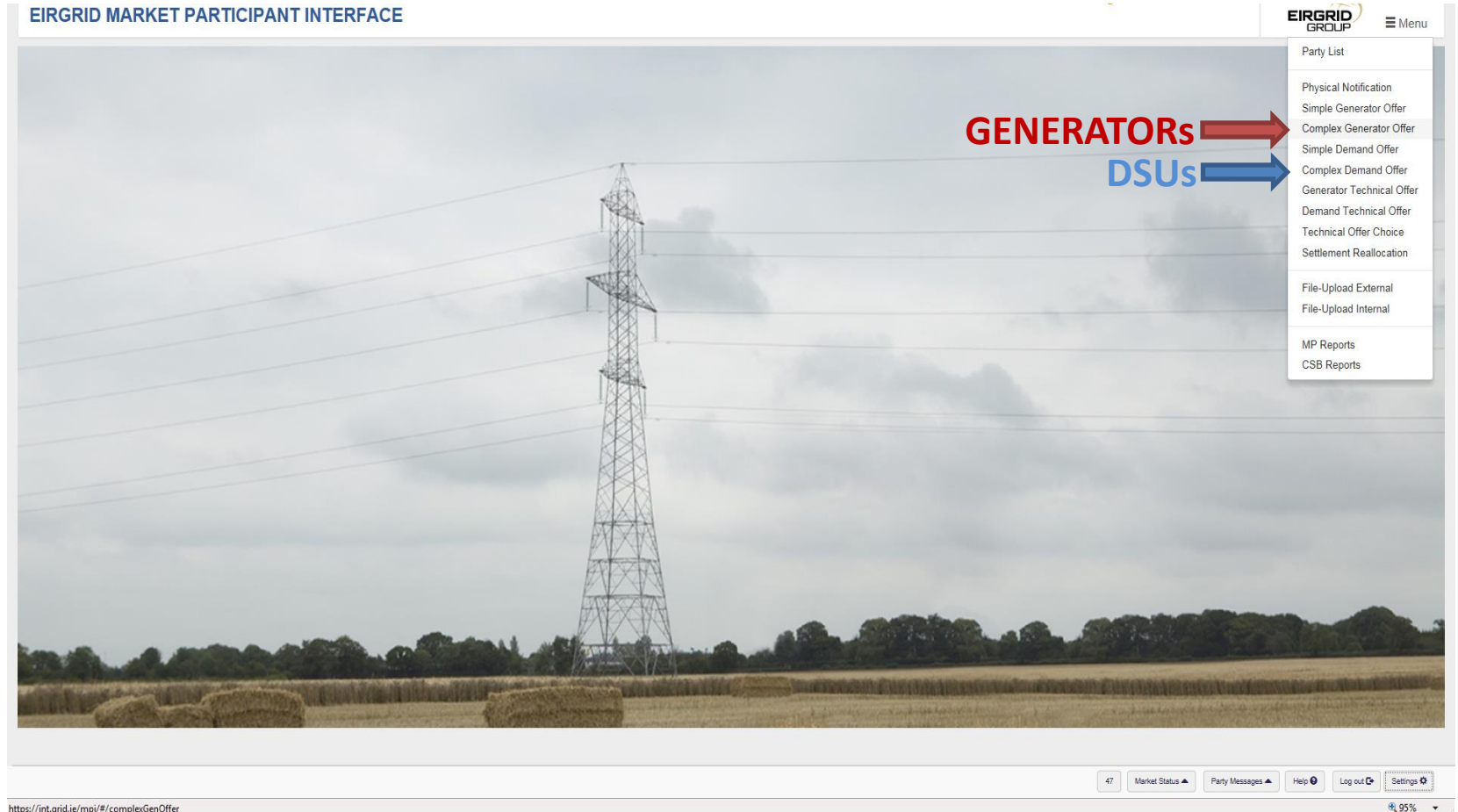
Clarification on DSU forecast availability

- A [Note for Participants on FNDDS Calculation Methodology](#) which was published in November 2018.
  - "DSUs only declare availability (forecast and real-time) **for which the SOs can schedule to**, while ensuring Distribution System Operator (DSO) and Distribution Network Operator (DNO) **congestion restrictions are still observed**. This entails submitting Physical Notifications, forecast availability and declared availability prior to Balancing Market gate closure, and in real-time operation, reflecting DSO / DNO Instruction Sets. SOs schedule and dispatch DSUs up to their declared availability only (DSU availability which reflects for DSO / DNO instruction sets)."

Tutorial – Updating availability per MPI

- https://mms.sem-o.com/mpi/

Generators – Step 1: Header data

COMPLEX GENERATOR OFFER

Trade Date *	Participant Name *	Resource Name *	Standing Info	External Identifier
12/09/2019	PT_4000	GU_400	☐ Day Type ∨ Expiry date.	

1   **2**   **3**

⊕ Query   ⊟ Save ▼   ⇄ Reset   ◫▼

Interval Details

#	Start Time *	End Time *	Maximum Mw *	Minimum Mw *	Minimum Output *	Fuel Type	➕

No of Records - 0

Submit

Increment Curve Details

#	Price *	Quantity *	➕

Decrement Curve Details

#	Price *	Quantity *	➕

StartUp Cost Details

Hot	Warm	Cold

No Load Details

No Load Cost

Pump Storage Details

Spin Gen Cost	Spin Pump Cost

Energy Limit Details

Energy Limit

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Generators – Step 2: Data entry (per BCoP)

COMPLEX GENERATOR OFFER

Trade Date * 12/09/2019
Participant Name * PT_400
Resource Name * GU_400
Standing Info — Day Type — Expiry date
External Identifier

#	Start Time *	End Time *	Maximum Mw *	Minimum Mw *	Minimum Output *	Fuel Type	
1	11/09/2019T23:00	12/09/2019T23:00	300	100	0	PRIMARY	

1

#	Price *	Quantity *	
1	25	290	

2

Decrement Curve Details

#	Price *	Quantity *	
1	20	290	

3

StartUp Cost Details

Hot	Warm	Cold
1000	5000	10000

4

No Load Details

No Load Cost **5**
50

No of Records - 1

Submit

Pump Storage Details

Spin Gen Cost
Spin Pump Cost

Hydro / Storage

Energy Limit Details

Energy Limit

35

Generators – Step 3: Reflect Actual Output

COMPLEX GENERATOR OFFER

Trade Date *	Participant Name *	Resource Name *	Standing Info		External Identifier
12/09/2019	PT_400	GU_400	☐ Day Type ∨	Expiry date	

Query | Save | Reset

Messages (1)

#	Type	Message
1	Information	Successfully processed the GeneratorOfferDly. **3**

Interval Details

#	Start Time *	End Time *	Maximum Mw *	Minimum Mw *	Minimum Output *	Fuel Type	
1	11/09/2019T23:00	12/05/2019T01:30	300	100	0	PRIMARY	
2	12/09/2019T01:30	12/09/2019T12:30	310	100	0	PRIMARY	
3	12/09/2019T12:30	12/09/2019T16:30	290	100	0	PRIMARY	
4	12/09/2019T16:30	12/09/2019T23:00	300	100	0	PRIMARY ∨	

No of Records - 4

Submit **2**

- **Ambients   1**
- **Outages**
- **Restrictions**

Increment Curve Details

#	Price *	Quantity *	
1	20	280	
2	25	300	
3	30	320	

Decrement Curve Details

#	Price *	Quantity *	
1	18	280	
2	20	300	
3	22	320	

StartUp Cost Details

Hot	Warm	Cold
1000	5000	10000

No Load Details

No Load Cost
| 50 |

Pump Storage Details

Spin Gen Cost	Spin Pump Cost

Energy Limit Details

Energy Limit
| |

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DSUs – Step 1: Header data

DSUs – Step 2: Data entry (per BCoP)

COMPLEX DEMAND OFFER

Trade Date *	Participant Name *	Resource Name *	Standing Info		External Identifier
12/09/2019	PT_4006	DSU_4012	☐ Day Type ∨	Expiry date.	

⊕ Query   ⊟ Save ▼   ↻ Reset   ▦ ▼

Interval Details

#	Start Time *	End Time *	Maximum Mw *	Minimum Mw *	Minimum Output *	➕
1	11/09/2019T23:00	12/09/2019T23:00	8	1	0	⊠

1

No of Records - 1

Submit

Increment Curve Details

#	Price *	Quantity *	
1	-50	1	⊠
2	-40	2	⊠
3	-30	3	⊠
4	-20	4	⊠
5	-10	5	⊠
6	0	6	⊠
7	10	7	⊠
8	20	8	⊠
9	30	9	⊠
10	40	10	⊠

2

Decrement Curve Details

#	Price *	Quantity *	
1	-55	1	⊠
2	-45	2	⊠
3	-35	3	⊠
4	-25	4	⊠
5	-15	5	⊠
6	-5	6	⊠
7	5	7	⊠
8	15	8	⊠
9	25	9	⊠
10	35	10	⊠

3

Shutdown Cost Details

Value
| 10 |

4

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DSUs – Step 3: Reflect Actual Output

- **Ambients**
- **Outages**
- **Restrictions**
- **Constraints**

COMPLEX DEMAND OFFER

Trade Date *	Participant Name *	Resource Name *	Standing Info	External Identifier
12/09/2019	PT_400▬	DSU_40▬	☐ Day Type ▾ Expiry date.	

⊙ Query ⊟ Save ▾ ⇆ Reset ▬▾

Interval Details

#	Start Time *	End Time *	Maximum Mw *	Minimum Mw *	Minimum Output *	⊞
1	11/09/2019T23:00	12/09/2019T01:30	8	1	0	▨
2	12/09/2019T01:30	12/09/2019T07:30	10	1	0	▨
3	**12/09/2019T07:30**	**12/09/2019T11:30**	**5**	**1**	**0**	▨
4	12/09/2019T11:30	12/09/2019T17:30	4	1	0	▨
5	12/09/2019T17:30	12/09/2019T23:00	9	1	0	▨

No of Records - 5

Submit

Increment Curve Details

#	Price *	Quantity *	
1	-50	1	▣
2	-40	2	▣
3	-30	3	▣
4	-20	4	▣
5	-10	5	▣
6	0	6	▣
7	10	7	▣
8	20	8	▣
9	30	9	▣
10	40	10	▣

Decrement Curve Details

#	Price *	Quantity *	
1	-55	1	▣
2	-45	2	▣
3	-35	3	▣
4	-25	4	▣
5	-15	5	▣
6	-5	6	▣
7	5	7	▣
8	15	8	▣
9	25	9	▣
10	35	10	▣

Shutdown Cost Details

Value
| 10 |

EIRGRID

Imbalance Price Performance issue

QBOA Performance Issues

Legend: Number of QBOAs in Stack — Timing of QBOA Calculation — Calculation Timing Out
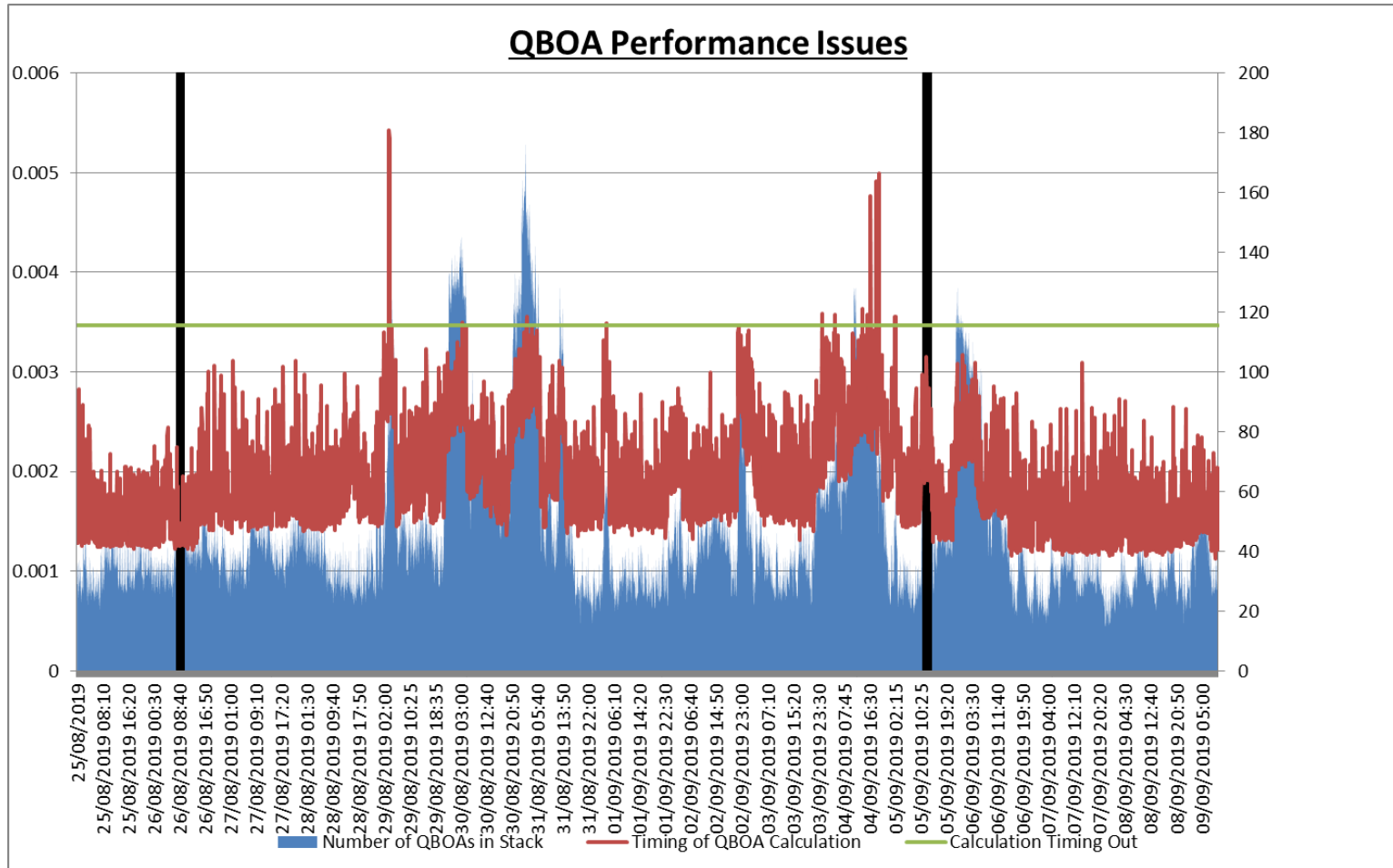
25th of August: Black Start Test
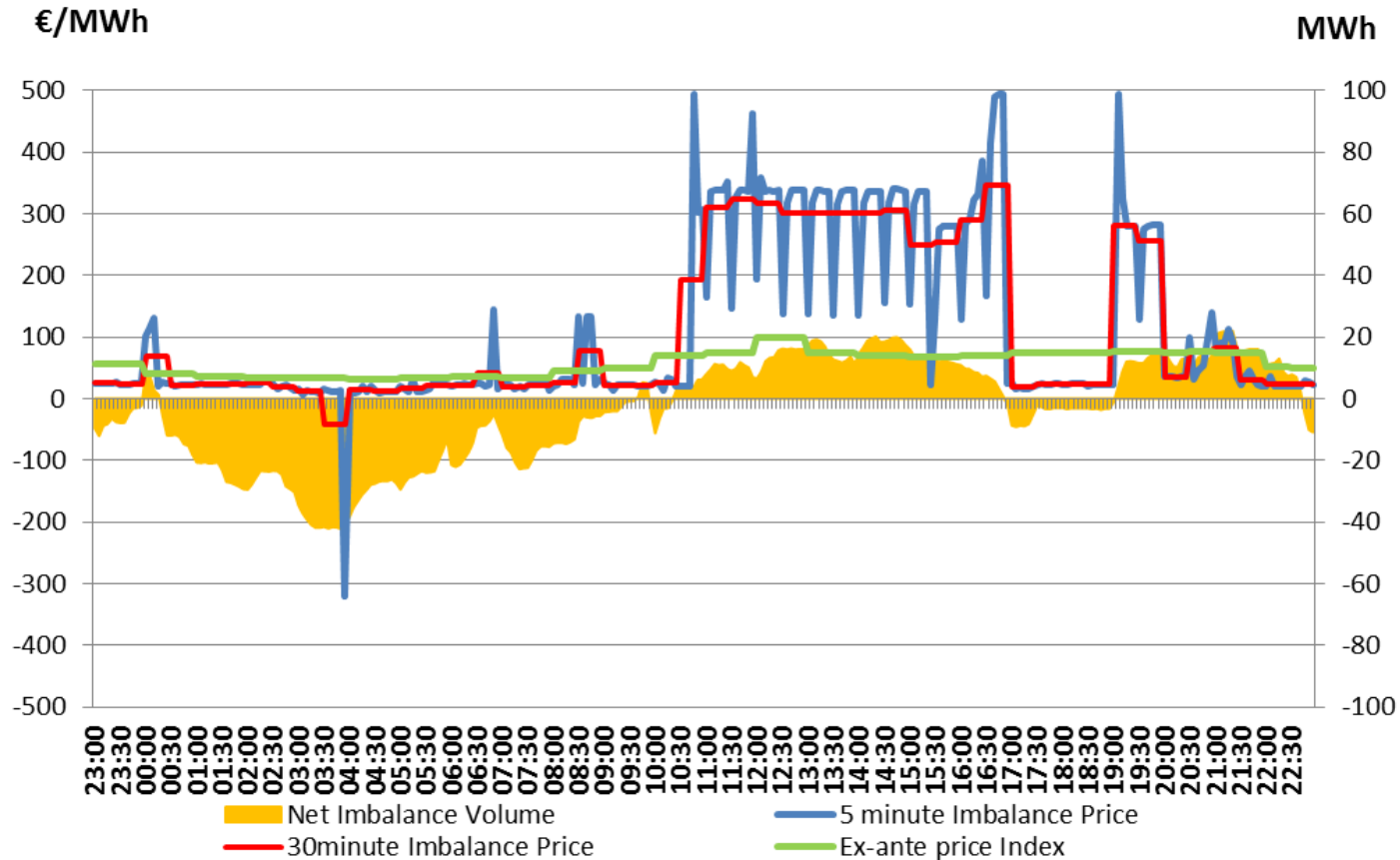
25th of August: Black Start Test

5min FPN and Schedule DQ for: 25-Aug-2019

25th of August: Black Start Test

Binding Constraints for: 25-Aug-2019
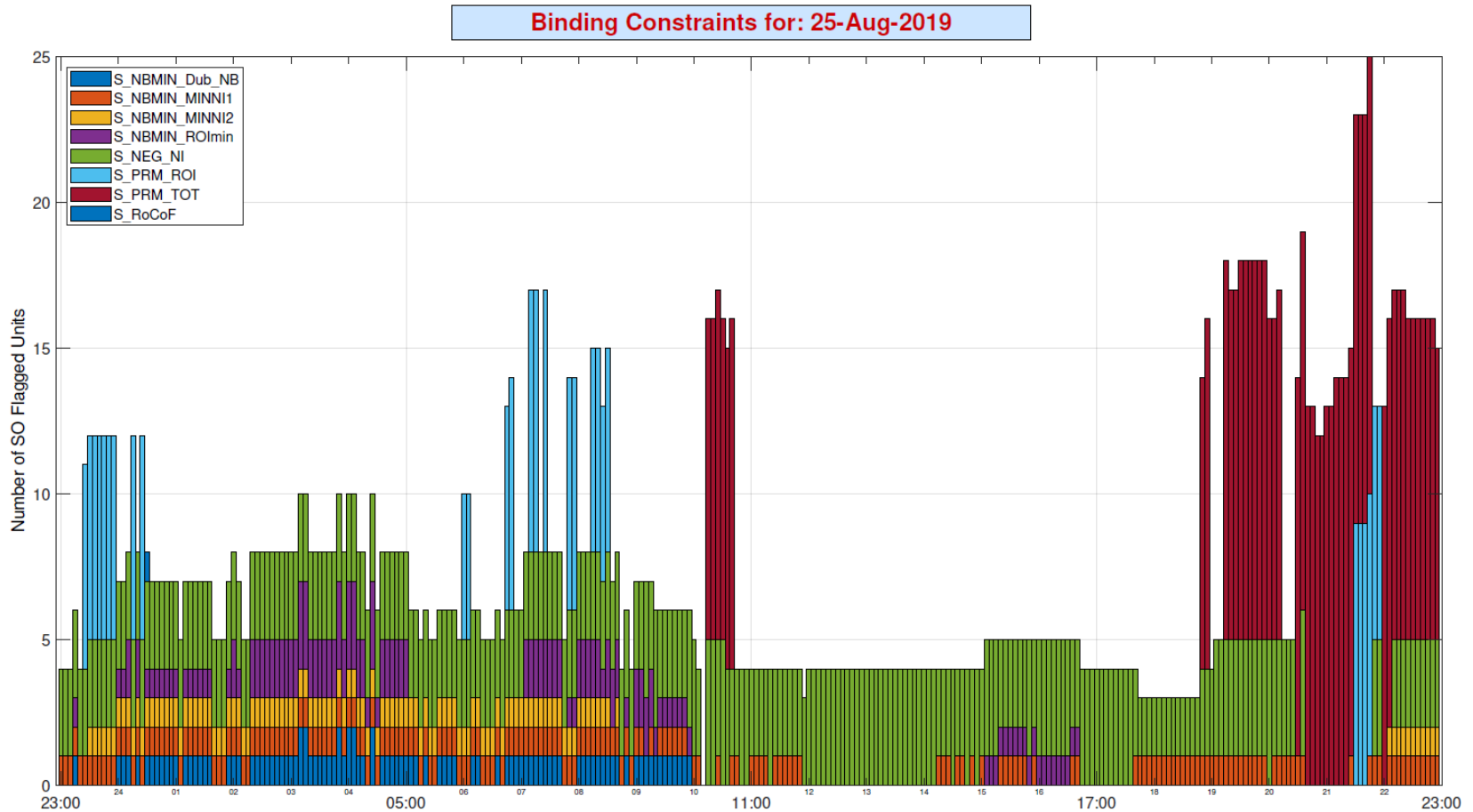
25th of August: Black Start Test

PIMB Ranked QBOA Stack for: 25-Aug-2019
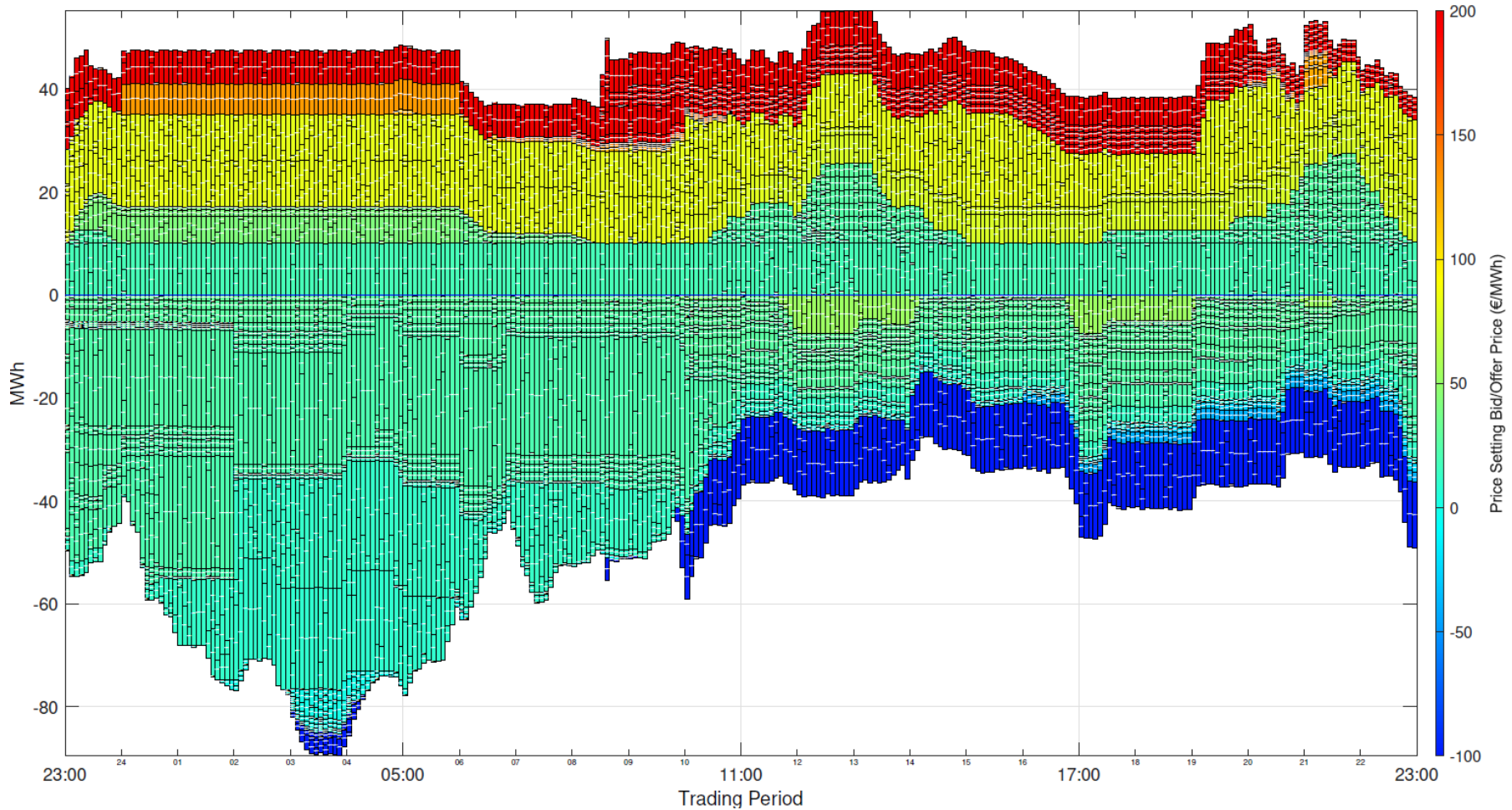
25th of August: Black Start Test

PIMB SO Flagging for: 25-Aug-2019
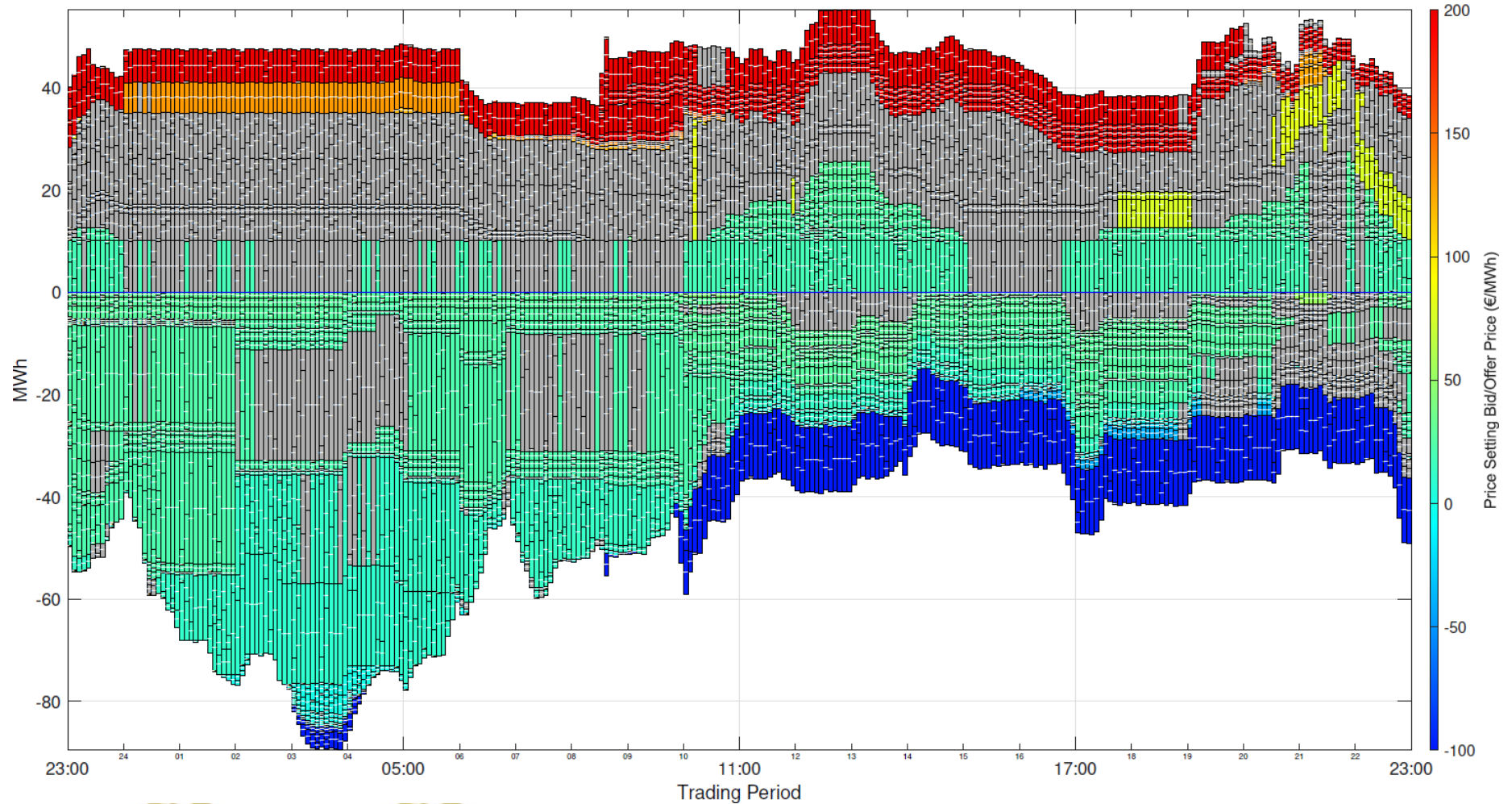
25th of August: Black Start Test

PIMB Non-Marginal Flagging for: 25-Aug-2019
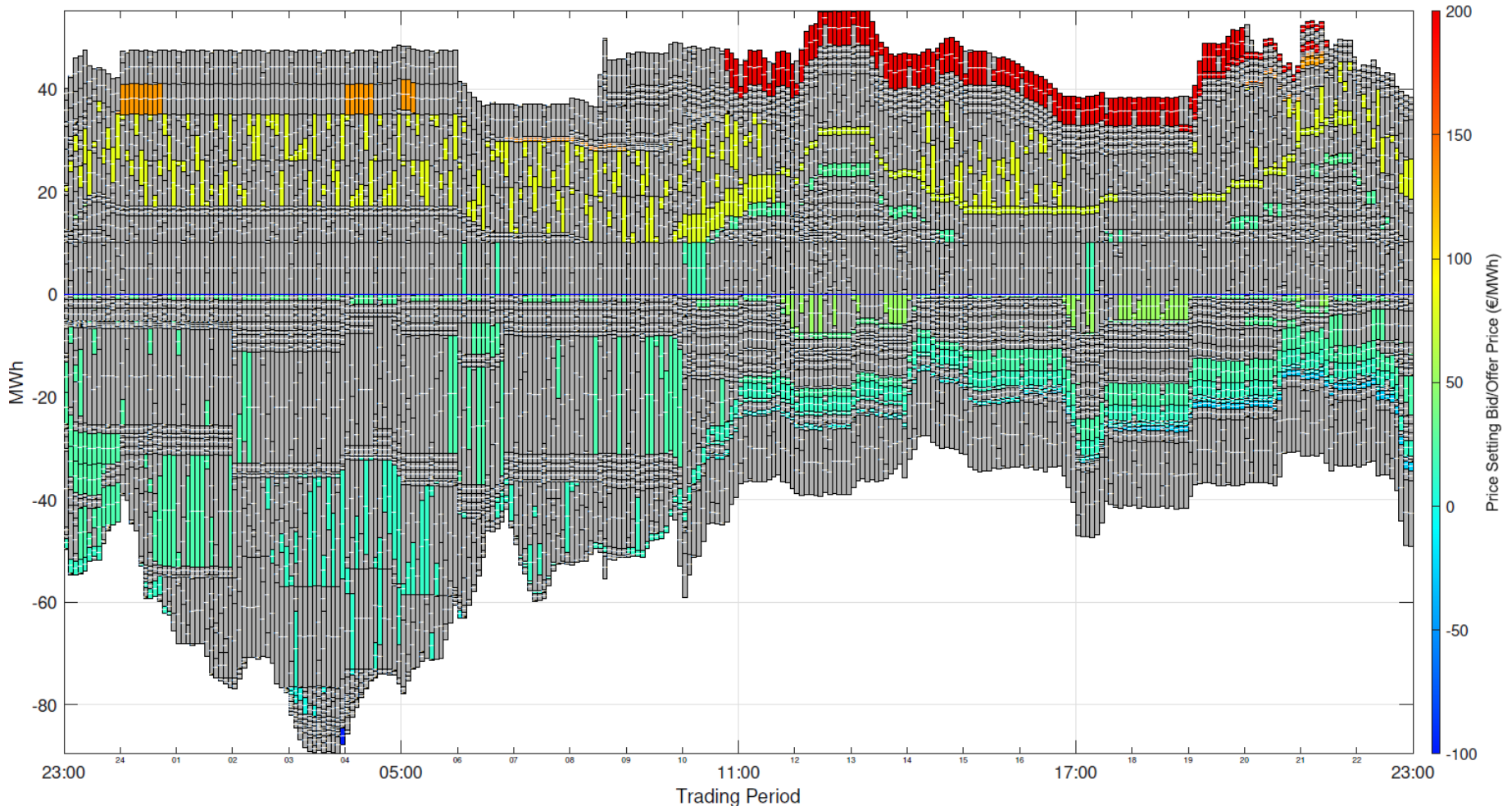
25th of August: Black Start Test

Imbalance Price Tag with PMEA for: 25-Aug-2019

Agenda

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Welcome	Anne Fitzgerald
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Ex-Ante Market	Michael Atcheson, Liam McAllister
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Settlements	Claire Kane, Sean O'Rourke, John O'Dea
Query Management	Claire Breslin
Q&A	

Repricing Update

Application of an amended **Price Materiality Threshold of 0%** on a **temporary basis, until such time as an I.T. solution** that is capable of calculating materiality is delivered.

Progress Update:

- Testing of repricing solution on track
  - Release D to be deployed on the 15th of October
  - Further 2 to 3 weeks of analysis (in test) post deployment.

- Commencement of repricing early to mid November.

- Alignment with M+13 resettlement?
  - Unable to meet first M+13 runs.
    - Data for M+13 required early October.
  - Potentially able to meet M+13 by November / December.
  - Adhoc resettlement for October and November 2018 .
    - To be completed mid 2020.

Repricing and Price Materiality Threshold Parameter Consultation

1. Application of repricing for the period from 1 October 2018 to 11 June 2019 using the currently approved **5% Price Materiality Threshold.**

2. Application of an amended **Price Materiality Threshold of 0%** on a **temporary basis, until such time as an I.T. solution** that is capable of calculating materiality is delivered.

3. Raising an **Urgent Modification** to the Trading and Settlement Code, to amend Section E.3.8 on a **temporary basis with the intention of not carrying out repricing from 1 October 2018 to 11 June 2019.**

4. Raising an **Urgent Modification** to the Trading and Settlement Code, to amend Section E.3.8 on **an enduring basis in order to require any repricing to be completed by the 13th month after the trading date at the latest.**

SEMO review of options posed based on current work-plan.

Proposal	Status
1. Apply 5% PMT	SEMO do not currently have a repricing solution capable of applying a 5% PMT. To implement this solution would mean repricing would not commence until at least Q4 2020.
2. Apply 0% PMT until an I.T Solution is available.	Status update discussed on the previous slide.
3. Urgent Modification to amend Section E.3.8 on a temporary basis with the intention of not carrying out (or suspend) repricing from 1 October 2018 to 11 June 2019.	SEMO would turn attention to implementing a solution that can apply a 5% PMT for future periods requiring repricing.
4. Urgent Modification on an enduring basis in order to require any repricing to be completed by the 13th month after the trading date at the latest.	If a 0% PMT was applied, the plan for option 2 would apply, albeit October and November 2018 would not be repriced. If however the intention was to apply a 5% PMT, SEMO would not have a solution in place by M + 13 for any periods requiring repricing, and therefore would be unable to reprice 1st October 2018 to 11th June 2019.

Repricing Update: Practical Issues

- Fix as many issues as possible when repricing – includes those which were unknown defects at the time of a particular dispute.

- Not all defects will be resolved within release D.

Issue Type	Count of Issues	Issue ID
Pricing Algorithm	10	5739; 5737; 5831; 5806; 5875; 5817; 5929; 5957; 112877; 6076
Incorrect Input Data (Late issuance of DIs; missing DIs etc)	4	Rpc3; Rpc4; Rpc1; Rpc2
Flags calculated incorrectly (RTD)	2	6105; 6003
Incorrect Application of SO Flags in Pricing	2	5720; 5973

- 6003: MWMIN STH and MW MAX STH Constraint not being correctly calculated

- 6076: PN's reverted to 'null' for one 5 minute Period

- 6105: Unit is not being flagged despite reserve constraint being binding.

- RTD is the real time decision making tool for the control centre which also calculates the flags .

  - Two known defects (6003 and 6105) are currently impacted by flags.

  - RTD cannot be re-run. The M.O *currently* unable to reprice these defects.

Disputes

Issue ID	Manifest Errors	Repricing Summary	Status
6076	Imbalance Price - Missing PN's 23rd July	With vendor for a solution	🟥
6105	Unit is not being flagged despite reserve constraint being binding	Fix as part of Release E.	🟥
-	Wind DI datafeed error & trip DI (15th August)	To be corrected as part of repricing	🟩

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Resettlement Updates

- M+4 Progress to Date

- M+13 Resettlement Approach

- M+4 Doubling Up

- Ad hoc resettlement

Settlements : July 2019 data key process updates

Settlement Dates	Run Category	Run Type	Runs to complete	On Time	Delayed – Same Day publication	Delayed > 1 Day
1st – 31st	Settlements	Indicative	31	17	4	10
1st – 31st	Settlements	Initial	31	29	2	-
Sep 30th 2018 – Oct 27th 2018	M+4 Resettlement	Weekly	28	28	-	-
1st – 31st	Credit Reports	Daily	66	66	-	-
1st – 31st	Payments In	Weekly	4	4	-	-
1st – 31st	Payments Out	Weekly	4	4	-	-

Settlements : August 2019 data key process updates

Settlement Dates	Run Category	Run Type	Runs to complete	On Time	Delayed – Same Day publication	Delayed > 1 Day
1st – 31st	Settlements	Indicative	31	19	3	8
1st – 31st	Settlements	Initial	31	28	3	-
Oct 28th 2018 – Dec 1st 2018	M+4 Resettlement	Weekly	28	28	-	-
1st – 31st	Credit Reports	Daily	66	66	-	-
1st – 31st	Payments In	Weekly	4	4	-	-
1st – 31st	Payments Out	Weekly	4	4	-	-

Key points :
- **Increase of additional** catch-up days in July & August due to Bank Holidays had an impacts on indicative publication timelines

- Delays with MDP data, Instruction profiling processing issues and additional processing re-runs were other reasons which caused delays to indicative publications (sequential nature of processing also has an impact)

- Initial data publications on time for ~95% of time for July & August (up from 40% for June 2019)

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Settlement Documents publication timelines

Settlement Dates	Run Category	Date published	On Time	Delayed – Same Day publication	Delayed > 1 Day
June 23rd – June 29th	Settlements	05/07/2019	1	-	-
June 30th – July 6th	Settlements	15/07/2019	1	-	-
July 7th – July 13th	Settlements	19/07/2019	1	-	-
July 14th – July 20th	Settlements	26/07/2019	1	-	-
July 21st – July 27th	Settlements	02/08/2019	1	-	-
July 28th – Aug 3rd	Settlements	12/08/2019	1	-	-
Aug 4th – Aug 10th	Settlements	16/08/2019	1	-	-
Aug 11th – Aug 17th	Settlements	23/08/2019	1	-	-
Aug 18th – Aug 24th	Settlements	30/08/2019	1	-	-
Aug 25th – Aug 31st	Settlements	06/09/2019	-	1	-
Sep 1st – Sep 7th	Settlements	13/09/2019	Due to publish Sep 13th	-	-

Issues impacting SD publication timelines

Date (s)	Issue	Impact to schedule timelines	Issue Status
Friday 6th September	• KIR ID 5443 (to be published in KIR Sep 13th) • BMCRM SD calculation fails for same start or end day of Billing Period for BALIMB and CRM	• Settlement Documents for the Billing period of the delayed publication within same day on Sep 6th due to internal workaround process to be implemented	Fix currently in test with Release D. Workaround was in place for Sep 6th publications.

Other updates :

• **Average Outturn Availability Report update :** Update on previous reports published with no data (over 60 days)

M4 Resettlement Cashflow (2 Months)

Adjusted Amount by Component

	CCA	CTEST	CREV	CDIFFCNP	CIMP	CCURL	CUNIMB	CDIFFCWD	CDIFFPIMB	CAOOPO	CABBPO	CPREMIUM	CDISCOUNT	CIMB	CFC
■ Difference	2,617	7,584	63,995	79,614	206,413	289,628	396,567	549,272	985,061	1,156,01	1,855,41	2,211,12	2,611,74	6,043,14	27,201,4
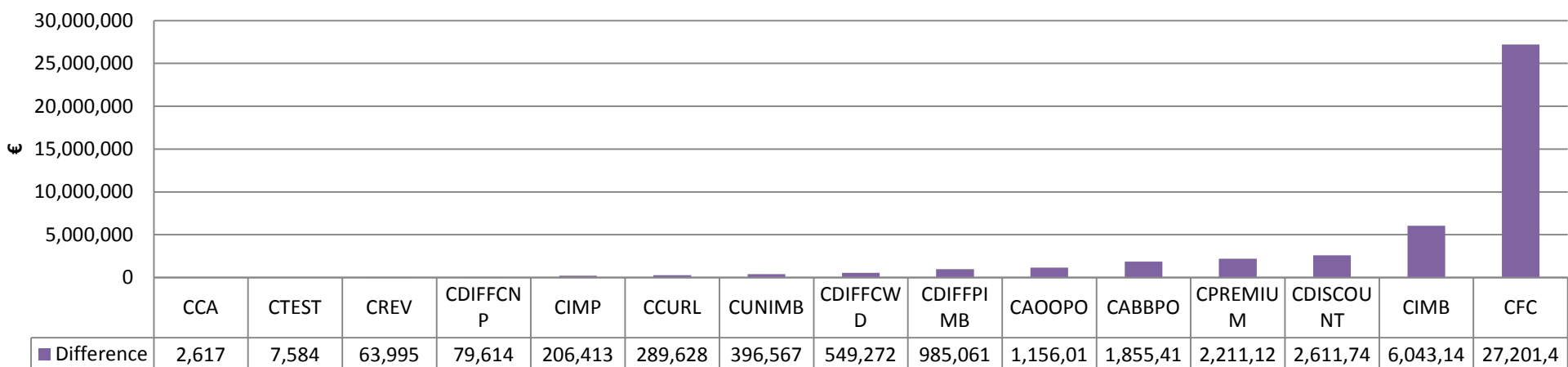
€43 Million is the Absolute Weekly M4 Cashflow up to Week 47 (01.12.2018) for BALIMB.

Total SEM Payment Amount	€43,659,611.55
BALIMB Payments IN	€9,857,604.75
BALIMB Payments OUT	€33,802,006.80

M4 Resettlement Cashflow (2 Months)

Component Difference (Exclude CFC)
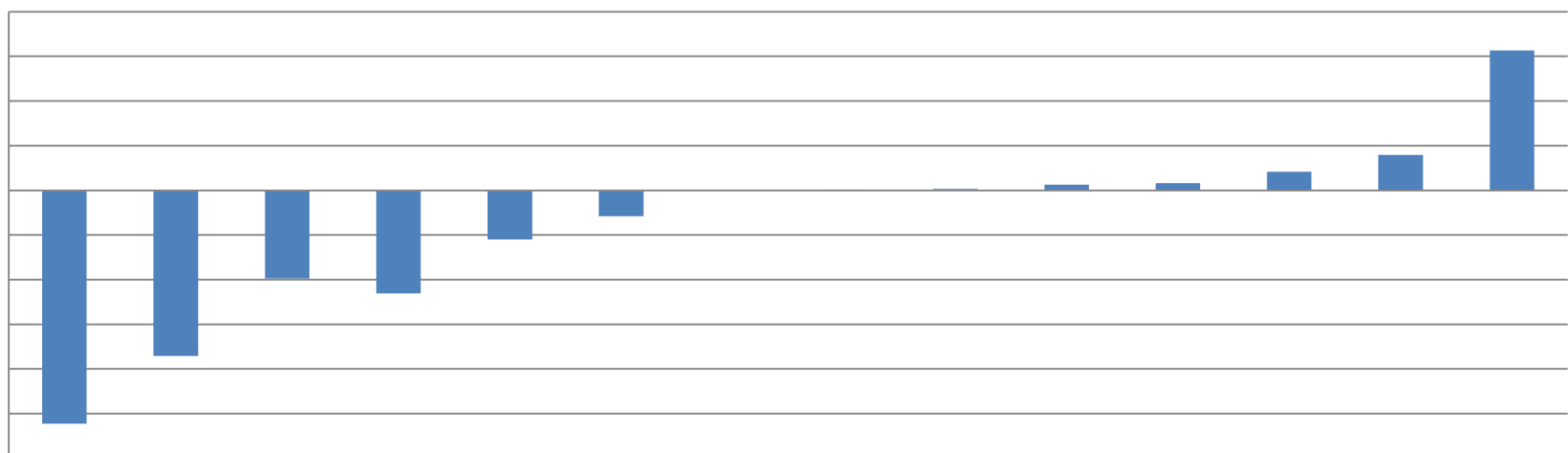
	CDISCOUNT	CABBPO	CDIFFPIMB	CAOOPO	CDIFFCWD	CCURL	CCA	CTEST	CPREMIUM	CREV	CDIFFCNP	CIMP	CUNIMB	CIMB
Component DIFFERENCE	(€2,611,	(€1,855,	(€985,06	(€1,156,	(€549,27	(€289,62	€2,616.6	€7,583.7	€17,114.	€63,995.	€79,614.	€206,412	€396,567	€1,565,5

Charge Component	Ad Hoc	M4	Diff
CCC	-54,513,385.20	-54,132,481.27	380,903.93
CCP	53,676,824.60	53,703,221.00	26,396.40
CSOCDIFFP	-1,253,807.92	-1,245,046.93	8,760.99
Grand Total	-2,090,368.52	-1,674,307.20	416,061.32

Charge Component	Initial	M4	Diff
CMOAU	-149,395.06	-149,303.20	91.86
CMOAV	-3,889.69	-3,888.77	0.92
CVMO	-2,911,230.34	-2,892,076.18	19,154.17
Grand Total	-3,064,515.10	-3,045,268.15	19,246.94

€435K is the Total M4 Cashflow up to Week 47 (01.12.2018) for CRM & MO.

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Query Management	**Claire Breslin**
Q&A	

Query Management – Overall Status

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2638

Open

closed
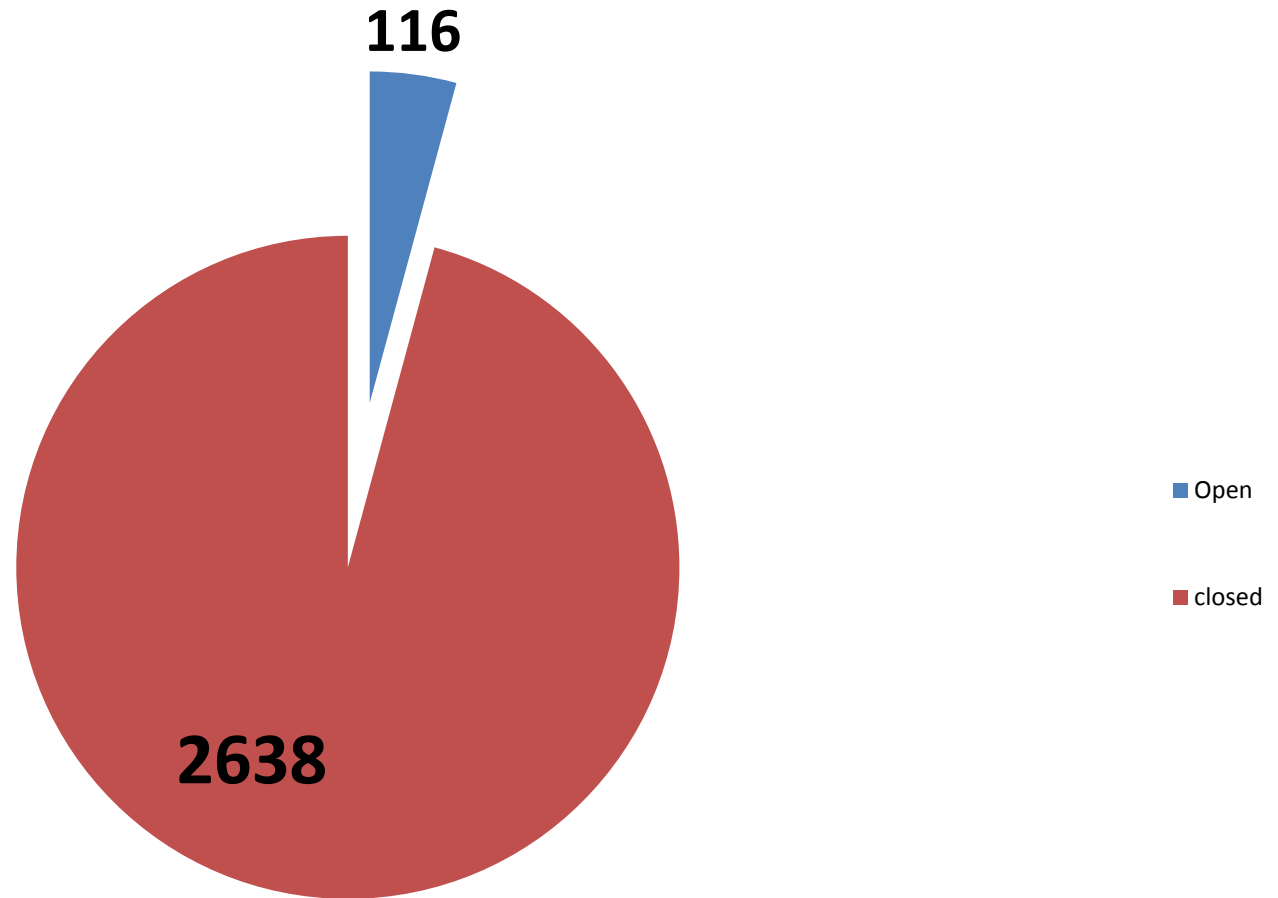
General Queries from 1.10.18 to date

Formal Queries and Disputes

- **Disputes**: Disputes received in total: 100 , Completed: 96; Open: 2; Rejected: 2

- **Formal Settlement Queries**: Received in total: 284, Completed: 263, In progress: 20; rejected 1

Queries Over 20 Working Days

- 63 Queries are open over 20 working days.

- This is a 59% reduction on the queries over 20 working days in July.

Queries Over 20WD by Area

Area	Value
Settlement	20
OPI	7
Front Office	4
Trading	5
Registration	5

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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.

Appendix 1

- [Link](#) to MOUG Action register – SEMO website

Appendix 2

- Known Issues Report

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.	Closed	Jan 2019
SEMOpx. 004	M7 'Own Orders'	"The latest M7 version brought a display bug in the system. When traders enter orders using M7 client, orders from the logged in trader are shown in white instead of coloured.This was resolved in ComTrader version 6.6.100 deployed for SEMOpx members 03/05/2019. Our service provider has advised no downtime will be required for this deployment however, SEMOpx Members were advised that the new ComTrader version is available for download via a dedicated link, via an operational message issued to registered Traders."	No material impact to SEMOpx Members; impacts user experience with platform as 'own trades' cannot be easily differentiated from competitors.	Closed	3rd May 2019

Known Issues Update – SEMOpx

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
SEMPOpx.005	M7 – Market View	Raised 22/05/2019: Bug in market view > aggregation display. If a trader has an order in for a certain contract, this contract is expected to display in the Market Overview in Blue indicating inclusion of own order in the aggregation of all orders for this contract. However it can, on occasion, be seen that the Market Overview still displays the contract in white despite containing an own order. It should be noted that matching is unaffected, the bug being limited solely to the display colour.	Display issue only. No impact to matching.	Closed	On the 04/06/2019 the new non-mandatory ComTrader version 6.6.100.2 was made available under the following link: http://m7trading.deutsche-boerse.com/semo-prod/
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
5635	REPT_102: Hourly Dispatch Instructions Report Intermittently Fails to generate in XML format.	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.	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.	Closed	Release A Jan 29th 2019
5737	Units being skipped in QBOA calculations	Unit being skipped in pricing due to "Error in Slope Calculation" causing periodic drop in NIV	QBOA is missed for a Unit, resulting in impact to Imbalance Price	Closed	Release B March 26th 2019
5831	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.	Closed	Release B March 26th 2019

Known Issues Update – Balancing Market

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	Closed	Release B March 26th 2019
5844 (PNs)	REPT_042	The Forecast Imbalance Report is not calculating the some of the data within the reports correctly.	The PNS are currently being calculated incorrectly. The report presents inaccurate information.	Closed	After further investigation with the vendor, this report is working as correctly and as per the design for the TSO Demand Forecast column.
5913	REPT_042	The Forecast Imbalance Report is not calculating the some of the data within the reports correctly.	The TSO Demand Forecast value is inaccurate as it reads from the all island values and reports inaccurate figures. The report corrects itself and is accurate leading up to the gate closure	Closed	After further investigation with the vendor, this report is working as correctly and as per the design for the TSO Demand Forecast column.
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.	Closed	The performance of the Imbalance Pricing function has improved and no Market Back Up Prices have been used since the release on 26th March 2019.

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.	Closed	Release C, 11th June 2019 .
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	Closed	Release C, 11th June 2019 .
5870	REPT_081 hourly Anonymized INC and DEC Curves	REPT_081 can contain records for a full day rather then on a 30 minutes basis as per design	Report can publish inaccurate data	Closed	Release C, 11th June 2019 .
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	Closed	Release C, 11th June 2019 .

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution 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.	Closed	Release C, 11th June 2019 .
105605/ 5753	List of Registered Units' report	Report currently creates multiple records for each registered unit, each one with a different trading site. It will create these multiple records for each trading site which is assigned to the unit's participant. It is also creating multiple (duplicate) records with a N/A trading site	Report contains duplicate records	Closed	Release C, 11th June 2019 .
5497	VTOD Soak Times	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. Please note: the integrity of the VTOD set is unaffected. This is simply an incorrect display in the MPI.	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.	Closed	Release C, 11th June 2019 .

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5756	REPT_011	Various flags incorrect in REPT_011 (Daily Technical Offer Data Report) – PUMP_STORAGE FLAG, Fuel Type for Pumped Storage Units (linked to PUMP_STORAGE FLAG issue), Firm Access Quantity defaulting to zero for all units (should be Trading Site FAQ)	Participants to continue to use report as normal	Closed	Release C, 11th June 2019 .
5957	LOCL/LCLO not working across settlement day boundaries	LOCL/LCLO is not applying correctly across the calendar day boundary.	LOCL instruction is not applied resulting in the QBOA to be dropped.	Closed	Release C, 11th June 2019 .
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	Closed	Release C, 11th June 2019 .
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.	Closed	Release C, 11th June 2019 .

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5929	LCLO Instruction causing QBOAs for whole 5 minute period to drop	Issuing an LCLO within minutes 1 – 5 of a 5 minute pricing period should still result in a QBOA value being created for that period up until the LCLO instruction is issued.	QBOAs are dropped for the relevant 5 minute pricing period.	Closed	Release C, 11th June 2019 .
5796	REPT_042	The Forecast Imbalance Report is not calculating the some of the data within the reports correctly.	The Net Interconnector Schedule value is incorrectly reporting as 0 when both interconnectors are on full export. The data for the Moyle Interconnector are sometimes not contained within the calculated and reported value for the Net Interconnector Schedule attribute.	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor
5845	REPT_022: Initial Interconnector Flows and Residual Capacity	This report is appearing EMPTY in the MPI and website.	Report unavailable to Market Participants and General Public.	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor CR currently in review
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.	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
117257/6 031	Access of MPI information before registration Date	A user who is registered in the Balancing Market receives a market effective date. They are not able to access any published information in the MPI before this date market effective date.	New users will not be able to access historical I-SEM data before their registration date in the MPI. Public reports are published to the SEMO website. Users will be unable to access reports from before registration.	In Analysis	In Day 1 plus scope, Target to include in Rel. D

Resolution: Software update from vendor |
| 5977 | REPT_082 | REPT_082 PUB_AvgOutturnAvail is publishing data for de-registered units | May cause issues for Market Participants that are validating against PUB_DailyRegisteredUnits | In Analysis | In Day 1 plus scope, Target to include in Rel. E

Resolution: Software update from vendor |
| 5942 | VTOD Changes Taking Effect on Approval | Approved changes to VTOD are taking effect on the operational day that the change is approved, rather than the next Trading Day for which Gate Closure 1, has not yet occurred. | VTOD changes will take effect in the market systems on the date of approval.

Note – SEMO are implementing a workaround whilst this defect remains open. | In Analysis | In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor |
| 6021 | Incorrect application of LOCL/CRLO Instruction | LOCL instruction intermittently not being applied after a CRLO has been issued. | QBOA are not calculated for the impacted units, resulting in impact to Imbalance Price. | In Analysis | In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor |

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5991	Application of De Minimis Acceptance Threshold (DMAT) in Imbalance Pricing	Imbalance Pricing validation is resulting in QBOA volumes greater than DMAT to not be included in Imbalance Pricing calculations. Where a Unit has an Accepted Offer and Accepted Bid, one of which is below DMAT, both volumes are being omitted from the calculation.	Incorrect QBOA values, resulting in impact to Imbalance Price	In Analysis	n Day 1 plus scope, target to include in Rel E

Resolution: Software update from vendor |
| 5952 | REPT_008: I mbalance Price Report | Total Unit Availability field within the Imbalance Price Report is being calculated incorrectly. | The report may display incorrect Total Unit Availability values. The report presents inaccurate information. | In Analysis | In Day 1 plus scope, Release TBC

Resolution: Software update from vendor |
| 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. | In Analysis | In Day 1 plus scope, Release TBC Resolution: Software update from vendor |

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
82044	The Interconnector NTC report	Report is designed to show NTC (Net Transfer Capacity) values however is currently showing the TTC (Total Transfer Capacity) values. This is due to a configuration change requested by National Grid prior to go-live	Report is designed to show NTC (Net Transfer Capacity) values however is currently showing the TTC (Total Transfer Capacity) values. This is due to a configuration change requested by National Grid prior to go-live	In Analysis	TBC Resolution: SEMO are carrying out an impact assessment as this impacts multiple IT systems and also has a knock on impact for other processes.
SEMO_WEB.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
SEMO_WEB_002	SEMO and SEMOpx website File retention	The SEMO and SEMOpx websites currently does not show historical reports.	MPS are unable to download historical reports from the SEMO and SEMOpx website. A CR has been raised with the website vendor to make these files available	In Analysis	TBC Resolution: Software update from vendor

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
112877	Type 3 PNs Validation Error	TSO rejection of Under Test PNs that have been submitted in the same Type 3 transaction (multiple units in the same xml) as other PNs (i.e. not Under Test) will result in the rejection of all PNs at gate closure. Rather than reverting to the previous approved submission as per the design, the system will apply a 'null value'.	This will result in PNs reverting to a 'null' value for the entire period covered by the rejected PN submission. Note – SEMO would ask Market Participants to submit Type 3 Under Test PNs in separate submissions.	In Analysis	TBC Resolution: Software update from vendor
5329	Reports missing 1st ISP of Trade Day	Reports not showing first ISP interval for trade date in report. REPT_078: Aggregated Contract Quantities for Generation REPT_079: Aggregated Contract Quantities for Demand REPT_080: Aggregated Contract Quantities for Wind	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.	In the process of submission to the RA's for approval	TBC Resolution: Software update from vendor
109895	Daily Meter Data Report (Website)	Duplicate entries are appearing in the Dynamic report for Daily meter data.	Data is currently duplicated on the following dates in the dynamic meter data report on the website. 17th + 27th Nov 7th Dec has 3 line entry per timestamp 13th Dec 11th + 19th Jan.	In Analysis	TBC Resolution: Software update from vendor
110321	Incremental & Decremental Price quantity pairs	When a participant submits 9 Price Quantity Pairs for Incremental and Decremental costs curves the sequences do not see the prices as monotonically increasing and then defaults them to zero. This is a defect and has knock on impacts on the scheduling of LTS, RTC and RTD	As a workaround participants are requested to not submit 9 PQ pairs when submitting Commercial Offer Data.	In Analysis	TBC Resolution: Software update from vendor

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5587	Missing Reports on the new SEMO Website	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)	No material impact to Market Participants or General Public as these reports are now being uploaded manually to the SEMO website.	In the process of submission to the RA's for approval	TBC

Resolution: Software update from vendor |
| 5603 | REPT_081 hourly Anonymized INC and DEC Curves | Currently the report cumulatively adds each MW quantity to the last MW quantity rather then the difference. This results in erroneous MW values in the report. | 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. | In the process of submission to the RA's for approval | 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 |

Known Issues Update – Balancing Market

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5841	REPT_102: Hourly Dispatch Instructions Report	This report will now generate even if there is a null Dispatch Instruction. However this conflicts with the XSD schema for the report	Market Participants Market tools may fail to pull this report where a dispatch instruction contains a null dispatch instruction. Report is now available in all cases were before the report was available intermittently.	In Analysis	TBC Resolution: ITS Update
5317	REPT_088 Net Imbalance Forecast	The report is published every hour instead of every half hour , as specified by the ITS, Volume C.	Information is available less frequently. Market Participants continue to use the information as available.	In Analysis	TBC Resolution: ITS update
6076	PNs not used in Imbalance Pricing	Submitted Physical Notifications not used in Imbalance Price calculation for an isolated Imbalance Pricing Period.	Incorrect QBOA are calculated for the impacted units, resulting in impact to Imbalance Price.	In Analysis	TBC Resolution: Software update from vendor
102081	REPT_006: Daily DI Report	For P/S Units, intermittent representation of duplicate values (MWOF) 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

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.	Closed	Release A Jan 29th 2019
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.	Closed	Release A Jan 29th 2019
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	Closed	Release A Jan 29th 2019

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.	Closed	Release A Jan 29th 2019
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.	Closed	Release A Jan 29th 2019
5766	Actual Availability	IP Time Weighted Average calculation of qAA only referencing beginning and end of trading period	In some cases, qAA not correct.	Closed	Release A Jan 29th 2019

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.	Closed	Release A Jan 29th 2019
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.	Closed	Release A Jan 29th 2019
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	Closed	Release A Jan 29th 2019

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
103722	CFC not available in Settlement artefacts	Due to internal data transfer issues, the CFC costs are not available in the settlement artefacts	CFC not available in Settlement artefacts	Closed	Release A Jan 29th 2019
5799	Incorrect CFC and Premium Payments	Caused by incorrect QBOA calculation in particular circumstances	CFC and Premium data incorrect	Partially Closed	Release A Jan 29th 2019
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.	Closed	Release A Jan 29th 2019

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
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	Closed	Release A Jan 29th 2019
5881	Settlement Document	Settlement Document incorrect amount for New gross amount and Net amount when Settlement Calendar is configured with 2 AH runs for a Billing Period	Incorrect amounts reported in Settlement document when settlement calendar is configured with 2 AH runs for a Billing Period	Closed	Release A Jan 29th 2019
5881	Settlement Document	Settlement Document incorrect amount for New gross amount and Net amount when Settlement Calendar is configured with 2 AH runs for a Billing Period	Incorrect amounts reported in Settlement document when settlement calendar is configured with 2 AH runs for a Billing Period	Closed	Release A Jan 29th 2019

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5883	Difference Payment Calculation sets final QDIFFTRACK to zero if there are no intraday trades - Supplier Unit	Difference Payment Calculation sets final QDIFFTRACK to zero if there are no intraday trades - Supplier Unit	Difference payment Calculations are incorrect when a supplier unit has no intraday trades	Closed	Feb 19th 2019 Closed as hotfix
5931	ISEM_OUI and CSB_CIMB incorrectly been charged to interconnectors	CSB is not calculating the interconnectors CIMB incorrectly	No impact to market participants manual workaround is in place.	Closed	Feb 18th 2019 Closed as hotfix
5884	QDIFFTRACK Error for CAU units	QDIFFTRACK was calculated incorrectly where a capacity market unit only has day ahead trades.	Settlement reports/documents/Statements were delayed in publication to participants	Closed	Feb 2nd 2019 Closed as hotfix
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.	Closed	Release B March 26th 2019
5688	Bills case performance	Bill cases taking over two hours to run and process	Affects Settlement operations meeting agreed upon publication time lines	Closed	Release B March 26th 2019

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5988	NI units CNL & CSU in REPT_44 being displayed in EUR. Report should be in GBP	The CNL & CSU are being displayed in REPT_044 for NI units in EUR. These costs are to be reported in GBP as per the report registered currency.	Issue with shadow settling CNL & CSU as report determinants are in EUR.	Closed	5th April 2019
5888	Metered Quantity for DSUs	DSUs should not have an undelivered quantity. Metered quantity must be made equal to the dispatched quantity	Affecting settlement calculations for DSUs, resulting in non-zero undelivered quantities, which should be zero.	Closed	Release C, 11th June 2019 .
5886	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. Temporary workaround applied on the 21/01/2019 ensures that no further report will be removed from the MPI. Vendor is working on solution to republish all Settlement reports/documents/Statement to MPI	Closed	Release C, 11th June 2019.
5940	MPOP FPN Misalignment with MMS	Period of Market Operation Trading Period Starting points in CSB not aligned with the MM, including incorrect application of minute resolution. Should be 30 min resolution.	Not applying the correct starting points for FPNs in relation to the calculation of fixed costs for the Period of Market Operation	Closed	Release C, 11th June 2019.

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5950	Difference & NP Charges for DSUs	DSUs Day Ahead, Within Day Difference Quantities & Charges are being incorrectly applied to DSUs as per F.18.4 & F18.5 of the TSC. Calculation of QDIFFTRACK for DSUs being incorrectly applied to DSUs Day Ahead, Within Day Difference Quantities & Charges and Non-Performance Charges	DSUs specific – The calculation of QDIFFTRACK should be zero as per F.18.5 exclusion clause within the TSC including F2.1.2. Ex-Ante quantities are tracked via the FNDDS calculation.	Closed	Release C, 11th June 2019.
5972	Incorrect CNLR to Generators	There are two problems: a) The Fixed Cost calculation of CNLR will for (most) periods of MPOP include the interval prior to MPOP start in the summation. b) The Fixed Cost calculation of CNLR will for (most) periods of MPOP not do correct check on Dispatch Quantity for the last interval.	Incorrect CNLR to Generators	Closed	Release C, 11th June 2019.
5799	Incorrect CFC and Premium Payments	Caused by incorrect QBOA calculation in particular circumstances	CFC and Premium data incorrect. Improvement in QBOA Calculation	Closed	Release C, 11th June 2019
5936	Multiple instances of QAO and QAB being inconsistent i.e. large positive QAO and a large negative QAB when FPN and QD are similar.	Multiple instances of QAO and QAB being inconsistent i.e. large positive QAO and a large negative QAB when FPN and QD are similar.	Multiple instances of QAO and QAB being inconsistent	Closed	Release C, 11th June 2019

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5979	Error in Import of Dispatch Instruction Profiles to Settlement	Dispatch Instruction Profile is not being imported correctly into CSB where there are updated values from MA	Contiguous Periods of Operation are not being applied correctly where the Dispatch Instruction Profile has not imported correctly. Resulting in incorrect CFC calculation for affected Settlement Day/units.	Closed	Release C, 11th June 2019 .
5990	Difference Payment Calculation does not set final QDIFFTRACK to 0 if there are no Day Ahead or Intra Day trades	System not considering the scenario where there are no Day Ahead trade and thereby no QDIFFDA. QDIFFDA should default to 0 in calculation of QDIFFTRACK.	QDIFFPIMB not being calculated where there are no Day Ahead Trades. Missing trading Period calculation & data on reports where there are no Day Ahead trades.	Closed	Release C, 11th June 2019 .
5909	BOA and Start up / no load cost not being calculated when first BOA = 0	System changes between Simple and Complex COD use when the Order of the first BOA does not equal 1.	This affects CFC calculation	Closed	Release C, 11th June 2019 .
5893	Incorrect IPQBOA values	BOAs were intermittently calculated incorrectly when QD was equal to the FPN with a BOA generated. Also where QD is similar to FPN yet large variances in QAO and QAB.	FPN yet large variances in QAO and QAB. IPQBOA values were not correct. Temporary workaround is in place. Permanent solution to be provided by ABB	Closed	Release C, 11th June 2019 .
6042	Resettlement - Settlement Document Previous Purchases and Previous Sales are not populated correctly	Settlement Documents containing re-settlement Billing periods, the previous_gross_amount figure is correctly populated as the figure from the original settlement however none of the ***_prev figures are being populated.	Defect does not affect participant SD reports. Defect confirmed to only affect internal application UI screen. As such issue has been closed – No impact to market participants	Closed	5 July 2019

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
6010	Trading Site Units not linked to GU/SU IDs in CSB	Registration Import for Trading Sites(TS) is creating an Error for future effective date elements and end dating TS registration Data.	Trading Site Reg data being end dated in the settlement system when Error occurs, therefore correct TS config and calculations are affected. Settlement check and Manual workaround in place to ensure Trading site configuration is applied before running settlement.	In Analysis	In Day 1 plus scope, target to include in Rel D Resolution: Software update from vendor
5944	FPN Curve not applying Heat State to CFC inputs correctly	CSB not receiving correct FPN curve from Balancing Market resulting in incorrect Start-Up status.	Incorrect or No Heat State being applied within CSB, therefore Start-Up costs not being included within the CFC calculation	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor
6004	Error in calculation of CDIFFCNPA and CDIFFCNPB	The system shall calculate the CDIFFCNPB and CDIFFCNPA as zero in the 1st and last ISP of the capacity year for each CMU.	Calculation is currently setting the last and first ISP to CDIFFCNPA / $B\_(\Omega(\gamma-1))$ for the Capacity Tear for each CMU	In Analysis	In Day 1 plus scope, Target to include in Rel D Resolution: Software update from vendor

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5923	Metered Volumes by Jurisdiction (REPT_066) - Zero Metered Demand	Aggregated Metered Demand not being published on RET_066. Currently only reporting Aggregated Metered Generation	Unable to view the Aggregated Metered Demand within the Report	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor
5922	Stop Loss Limits (CSLLA/CSLLB) is not being calculated for IU and CAU	The Stop Loss Limits (CSLLA/CSLLB) calculation is looping over units with Reliability Options that are associated with a Trading Site. The settlement calculation should also include units with Reliability Options that are not associated with a Trading Site like CAU and IU units.	Stop Loss limits are not being calculated for IU and CAUs for the application of the a calculated % applied to the Non-performance	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor
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	In Analysis	In Day 1 plus scope, target to include in Rel. D Resolution: Software update from vendor

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
5910	Startup flag for CSUR with Warmth State	MA is currently providing Startup Flag and Warmth State for Synchronize Dispatch Instructions that relates to CSU calculation	This affects CFC calculation	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor
6035	Fixed Cost Calculation sums values from all AdHoc runs of a Billing Week instead of using the latest AdHoc run for each day	CFC calculation will sum the CIMB, CPREMIUM, CDISCOUNT, CABBPO, CAOOPO and CCURL amounts from both Ad Hoc Run #1 and Ad Hoc Run #2. It should only make use of the values from the latest Ad Hoc Run..	Incorrect CFC amounts in settlement documents where there is an instance of an ad-hoc completed over a previous ad-hoc for the same billing period.	In Analysis	In Day 1 plus scope, Target to include in Rel. D Resolution: Software update from vendor
5943	Simple/Complex COD	Simple/Complex COD: Flags and Tags are not being applied in the half hours they should. Prices are being applied only to the period where the DI is effective then persisting for all associate BOAs.	Prices are being applied only to the period where the DI is effective then persisting for all associate BOAs.	In Analysis	In Day 1 plus scope, target to include in Rel. E Resolution: Software update from vendor
6105	Units not being flagged on upward slope of reserve curve, despite reserve constraint binding	A Small subset of units have a unique reserve curve whereby they have both a positive slope at the beginning of the curve and a negative slope at the end of the curve. If reserve is binding all units with a non zeroslope should be flagged. The positive slope is not being flagged correctly.	This defect is only present on four units. If the unit is on a positive slope and the constraint is binding the unit will not be flagged and may contribute to the price as a result.	In Analysis	In Day 1 plus scope, target to include in Rel. E 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	In Day 1 plus scope, target to include in Rel. E Resolution: Software update from vendor
6044	QD determinant missing from REPT_44 in indicative & initial reports for a range of units and dates	QD determinant missing from REPT_44 in indicative & initial reports for a range of units and dates based on Reliability Options not being present for the units.	if a GU does not have an RO in which to calculate difference charges QD not present on REPT_044 as it is calling the value from the difference charges calculations. Result is QD is never published in REPT_044 for affected units (particularly wind units)	In Analysis	In Day 1 plus scope, target to include in Rel. E Resolution: Software update from vendor
5953	Report 044 missing Accept time for QAO and QAB determinants	Settlement Report not showing Accept Times for QAO & QAB	Market Participants unable to view the accept time of QBOAs used within Settlement	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
6001	ISEM Slope Error	31st Indicative related to long day affecting 11 units - still being investigated by ABB	Multiple units had no BOAs created for the 31st March Indicative Settlement IP run.	In Analysis	In Day 1 plus scope, drop 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.	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
123413	CNL in CFC not being calculated correctly in M4	No Load costs are not being paid correctly in some instances in CFC calculation of M+4.	Multiple participants may be underpaid until defect is fixed.	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
6083	QAOBIAS / QABBIAS incorrect ordering of ranked set for calculation leads to incorrect result	M+4 QABBIAS & QABUNDEL volumes are being calculate lower than expected outcomes. Similar to QABBIAS defect 6047	Ranked Set is being presented to the calculation by ranking number descending within position K of the QABBIAS & QABUNDEL calculations incorrectly. This should be ascending	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
6047	QAOBIAS / QABBIAS incorrect ordering of ranked set for calculation leads to incorrect result	Initial Calculation of ordering & ranking not performing in ascending order.	Ranked Set is being presented to the calculation by ranking number descending within position K of the QAOBIAS / QABBIAS calculation incorrectly. This should be ascending	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
CR118	Defect 6066 - CSB not applying a default value of zero in settlement calculations where data is not present	Where data is not present in CSB , a default value of zero shall apply within the settlement calculations to allow for the full calculation, publication of 48 trading periods that is to be reflected within statements , reports. A default value is not being applied resulting is missing trading periods.	Seeing inconsistencies between trading periods for a number of charge codes on statements & reports within Indicative, Initial and re-settlement. Unable to correctly shadow settlement off inconsistent statements & reports	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
6054	CFC calculation is including values for intervals prior to Market Start	COCMWP element of CFC was incorrectly calculated from 00:00 on 30/09/18 instead of 23:00 on 30/09/18.	Some participants have been over paid CFC in the first week of market for M+4.	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
6065	Re-settlement of DSU Difference charges	A defect fix in release C corrected incorrectly applied DSU difference charges within Initial settlement. These charges should be reflected / refunded in re-settlement due to the fix for the defect. This is not being reflected within the re-settlement calculation of difference charges and on the re-settlement settlement documents.	The correction of incorrect difference charges applied to DSUs are not being reflected within their re-settlement statements or settlement documents.	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor
5997	ISEM CSB FX rate after short day incorrect	After the clock change the push & or CSB is not applying the FX rate to the trading period 23:30 and & 00:00 correctly when they change.	Inaccurate settlement due to FX rate for 1hour period	In Analysis	In Day 1 plus scope, target to include in Rel E Resolution: Software update from vendor

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution 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.	In Analysis	TBC Resolution: Software update from vendor
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.	In Analysis	TBC Resolution: Software update from vendor
5890	QD and QM not matching on long day (28/10/18)	Long Day Trading periods not aligned between MAMI and CSB.	Trading Periods misalignment has resulted in the Long day trading periods being incorrectly settled within Initial Settlement.	In Analysis	TBC Resolution: Software update from vendor
105608	Dropdown filters not available on the SEMO website Settlement Calendar	SEMO Website Settlement Calendar > Publication > "Settlement Documents" is not present for users to filter.	11/03/2019 operational day is not available and possibly additional trade dates. We will confirm these dates once available	In Analysis	TBC Resolution: Software update from vendor

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
113784	ISEM_OUI_ExPost_Instruction_Profiler_M+4_Generator Operational Characteristics_changes required for 01/10/2018 and going forward	The Controllable flag status in registration details contained within Generator Operational Characteristics that also has Technical Offer Data don't match what's in the Resource Balancing screen. This is an issue while trying to rerun IP for M+4. The registration details within Initial Ex-Post \ Initial Instruction Profile \ Instruction Profile Input \ Generator Operational Characteristics screen are incorrect compared to what's in Market Information \ Registration\ Interface Views\ Resource Balancing this is affecting controllable flag status	M+ 4 Resettlement will move back into a regression test phase for a short period and re-planned for production. An update will be provided by the settlement team with the appropriate changes made to the settlement calendar.	In Analysis	TBC

Resolution: Software update from vendor |
| 5997 | ISEM CSB FX rate after short day incorrect | After the clock change the push & or CSB is not applying the FX rate to the trading period 23:30 and & 00:00 correctly when they change. | Inaccurate settlement due to FX rate for 1hour period | In Analysis | TBC

Resolution: Software update from vendor |
| 5998 | Differences in BOA values between OUI and CSB | Differences in BOA values between OUI and CSB intermittently | Missing volumes from Initial IP leading to inaccurate balancing settlement | In Analysis | TBC

Resolution: Software update from vendor |

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
113353	QBOA defect for Error in Slope messages resulting in no QBOAs	There are no IP QBOAs created for GU_X at the end of the day error message appears: Error in Slope calculation for unit GU_X	No BOA volumes are generated for the units in question for certain trading periods. This results in missing BALIMB payments and charges in the billing runs. To date this has only affect thermal generator units and DSUs.	In Analysis	TBC Resolution: Software update from vendor
5953	Report 044 missing Accept time for QAO and QAB determinants	Settlement Report not showing Accept Times for QAO & QAB	Market Participants unable to view the accept time of QBOAs used within Settlement	In Analysis	TBC Resolution: Software update from vendor
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	In Analysis	TBC Resolution: Software update from vendor
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

Known Issues Update – Settlement

ID	Name	Description	Impact to Market Participants	Status	Resolution Date
6044	QD determinant missing from REPT_44 in indicative & initial reports for a range of units and dates	QD determinant missing from REPT_44 in indicative & initial reports for a range of units and dates based on Reliability Options not being present for the units.	if a GU does not have an RO in which to calculate difference charges QD not present on REPT_044 as it is calling the value from the difference charges calculations. Result is QD is never published in REPT_044 for affected units (particularly wind units)	In Analysis	TBC Resolution: Software update from vendor
CR092	CR092 – Loss Factor Application for Interconnectors in Settlement	Change required for the provisions for loss-adjustment when an Interconnector is exporting (see below). This Change Request introduces the omitted provisions, as they are resulting in incorrect settlement outcomes.	Loss factors (export) incorrect on interconnectors in settlements leading to underpayment to this point in the market	In Analysis	TBC Resolution: Software update from vendor