

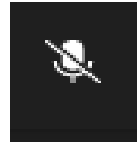
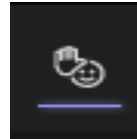
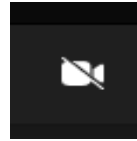
25/05/2023

Market Operator User Group



Housekeeping Rules

- Please keep your video switched off
- Raise your hand if you have a question
- When asked to unmute your line



Thank you for your cooperation

Welcome

Claire Kane



Agenda

Item	Presenter
Welcome	Claire Kane
SEMO CapEx Update for FY 2022/23	Brian Sherwin/Mark Hogan
Release Program Update	Mark Hogan
Ex-Ante Markets	Michael Rainey
Repricing Update	Michael Atcheson
M7, ETS Update	Michael Atcheson
Settlements Update	Patrick Barnes
System Operator Update	Emma Morris
Market Interface Update	Fergus O'Boyle
Q&A	



SEMO CapEx Update for FY 2022/23

Brian Sherwin / Mark Hogan



SEMO CapEx 1 Oct 22 - 25 Mar 23 (Indicative)

SEMO CapEx Spend (Indicative)	2022/23 CapEx Allowance	2022/23 Actual Spend (01 Oct - 25 Mar)	2022/23 Assets Under Construction (01 Oct - 25 Mar)
Total System Release Capital (€'m)	5.72	0.00	2.34
Market System Releases	4.62	0.00	1.62
Market System Release Support	1.10	0.00	0.72
Total Predictable Business CapEx (€'m)	3.79	0.00	0.79
SEM Infrastructure Refresh	1.52		0.79
SEM Finance System	2.00		
Automated Test Capability	0.27		
Website Development	0.00		
Total Unpredictable CapEx (€'m)	1.74	0.00	0.75
MMS Performance Enhancements		0.00	
Additional Market Environments		0.00	
Other		0.00	0.75
Total Capital FY22/23 (YTD) (€'m)	11.25	0.00	3.88

Notes:

- **Total System Release Capital:** The figures shown for 'Assets Under Construction' for the Market System Releases are for the full release across both TSOs and SEMO
- **The total FY22/23 Assets under construction includes:**
 - any project that was not complete as at 30 September 2022; and
 - any new projects begun after 01 October 2022.

Note: The figures in the table are indicative



Assets under construction FY22/23

- Deployment of Release J December 5, 2022 including functional and technical changes
- Middleware upgrade ongoing, forecast to go live w/c July 5, 2023
- Planning, designing and testing of future releases K and L ongoing



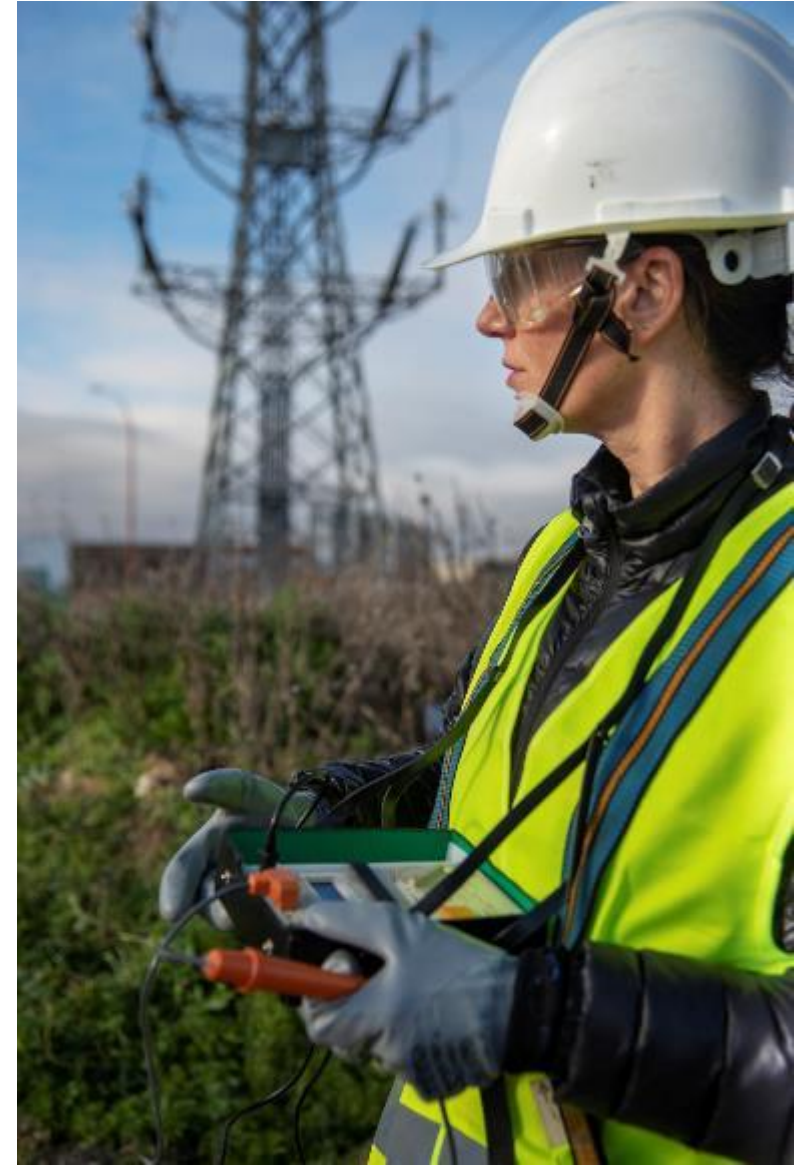
Release Program Update

Mark Hogan



Release Program Update

- Release K and L will be deployed as one release on August 15, 2023, subject to successful testing and operational considerations at time of go live
- Release L must be in by September 2023 in order to support the treatment of emergency generation in the market
- Combining the two releases into one deployment allows us to meet this date
- Release M will include support for Greenlink and will be deployed April 2024
- Microsoft has committed to supporting Microsoft Edge with IE mode until “at least 2029” ([link](#)) so we continue to recommend that approach until we have implemented native Edge and Chrome compatibility.



Release K contents

Change Request ref.	Description
CR-241b QBOA Undo scenario 3	In certain conditions there have been incorrect pricing and settlement outcomes due to bid offer acceptance volumes not being correctly calculated.
CR-279 30 min MTU	Change the Market Time Unit (MTU) such that the DAM can be processed in 30 minute increments from the current 60 minute increments.
CR-263 transfer of units	Transfer a registered Resource ID from one Participant ID to another within the Balancing Market and/ or one Member ID to another within the SEMOpX Market.
CR-282 Automation of CSB Settlement Processing	The automation of manual procedures; the combination of separate, daily pre-calcs into one function; and automation of daily settlement statement and reporting process.



Release L contents

Change Request ref.	Description
CR-288 Treatment of Emergency Generation	Support the treatment of Emergency Generation in the market systems
CR-294 Option to treat Pumped Storage as a Long Term Unit	Bring flexibility to scheduling of pumped storage generation
CR-297 Mod_08_22 Weekly Strike Price	Supports calculation of strike price on a weekly basis to better align with increased volatility in commodity markets
CR-224b Improved participant user updates in the MPI	Improves ability of the Registration team to see changes submitted by participants

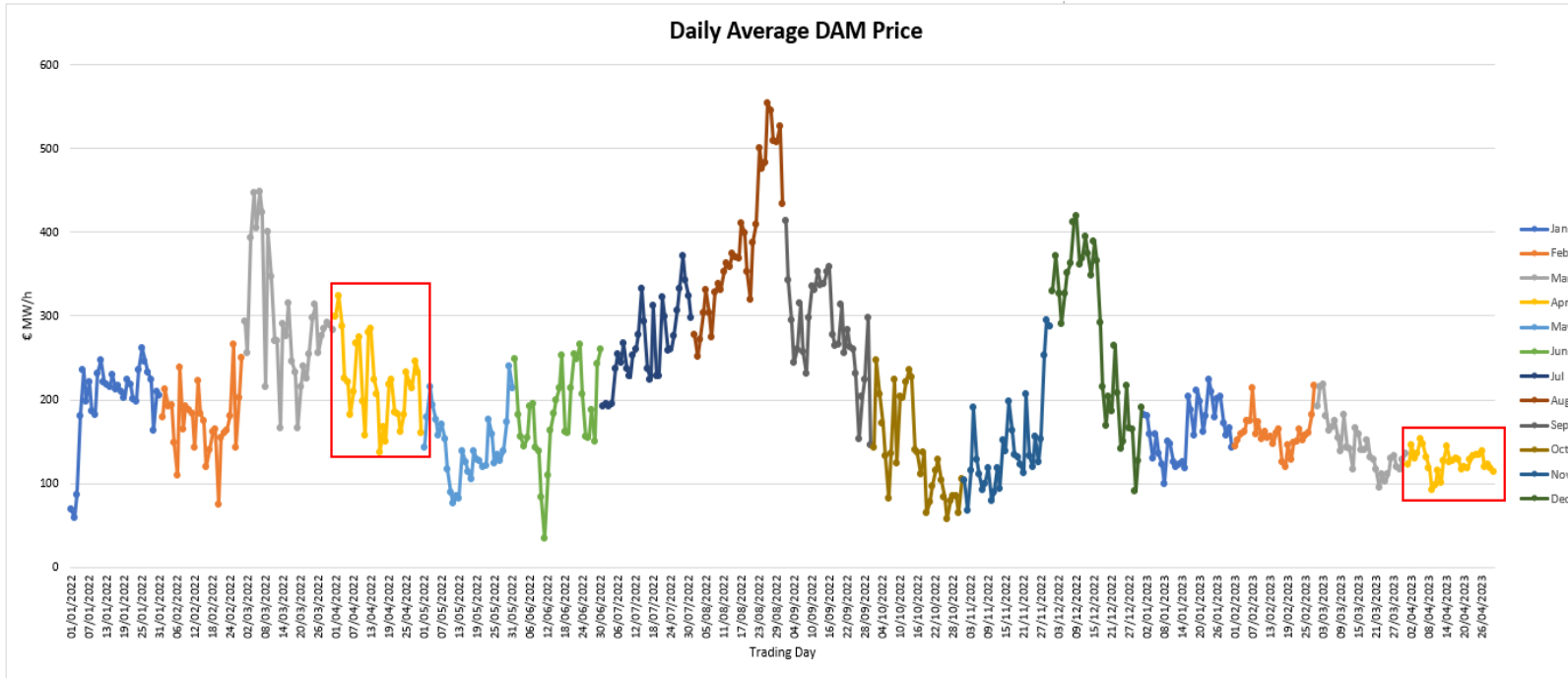


Ex-Ante Markets

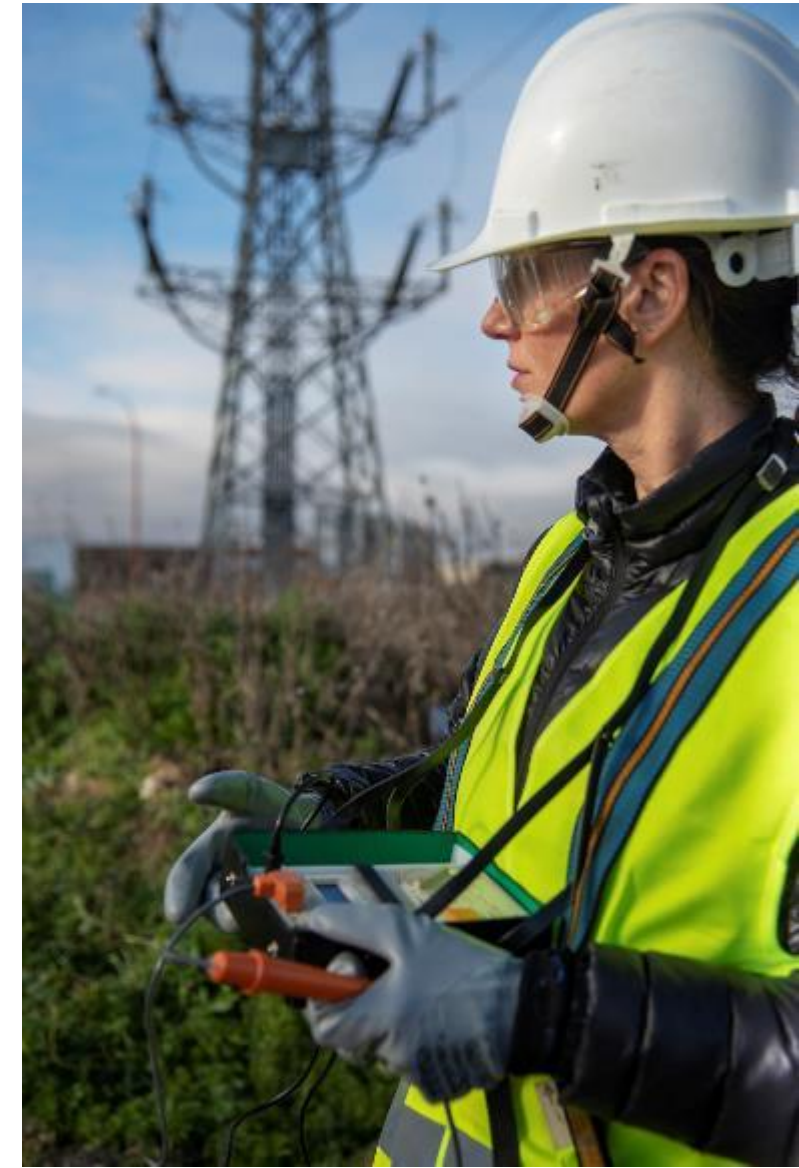
Michael Rainey



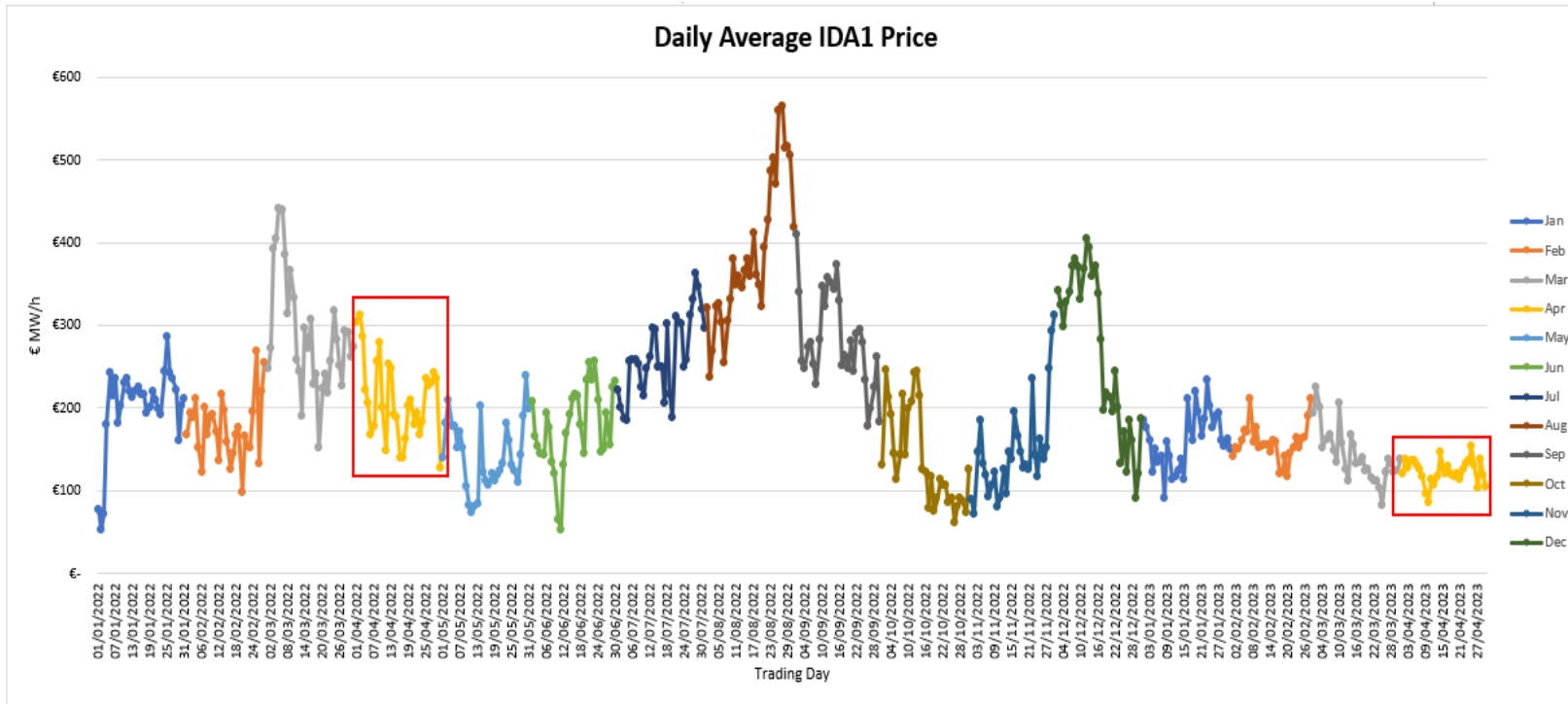
Ex-Ante Markets - DAM Daily Prices



- DAM Prices continued to fall in April 2023. Approx. 16% decrease when compared to March 2023 and approx. 74% decrease when compared to April 2022.
- The highest daily average DAM Price was approx. €152. This compares with a high of €323 in April 2022.



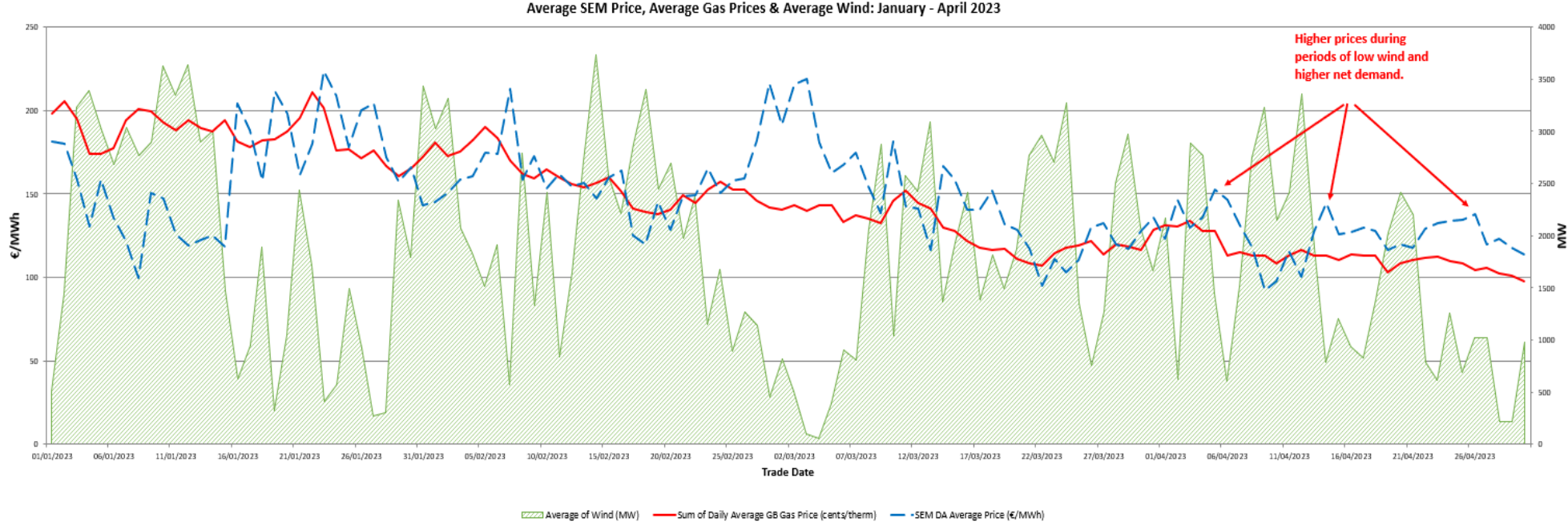
Ex-Ante Markets - IDA1 Daily Prices



- Similar trend in IDA1. The monthly average price for 2023 was approx. €123 versus €210 for April 2022.
- Overall SEM Prices were higher than GB Prices in April 2023.



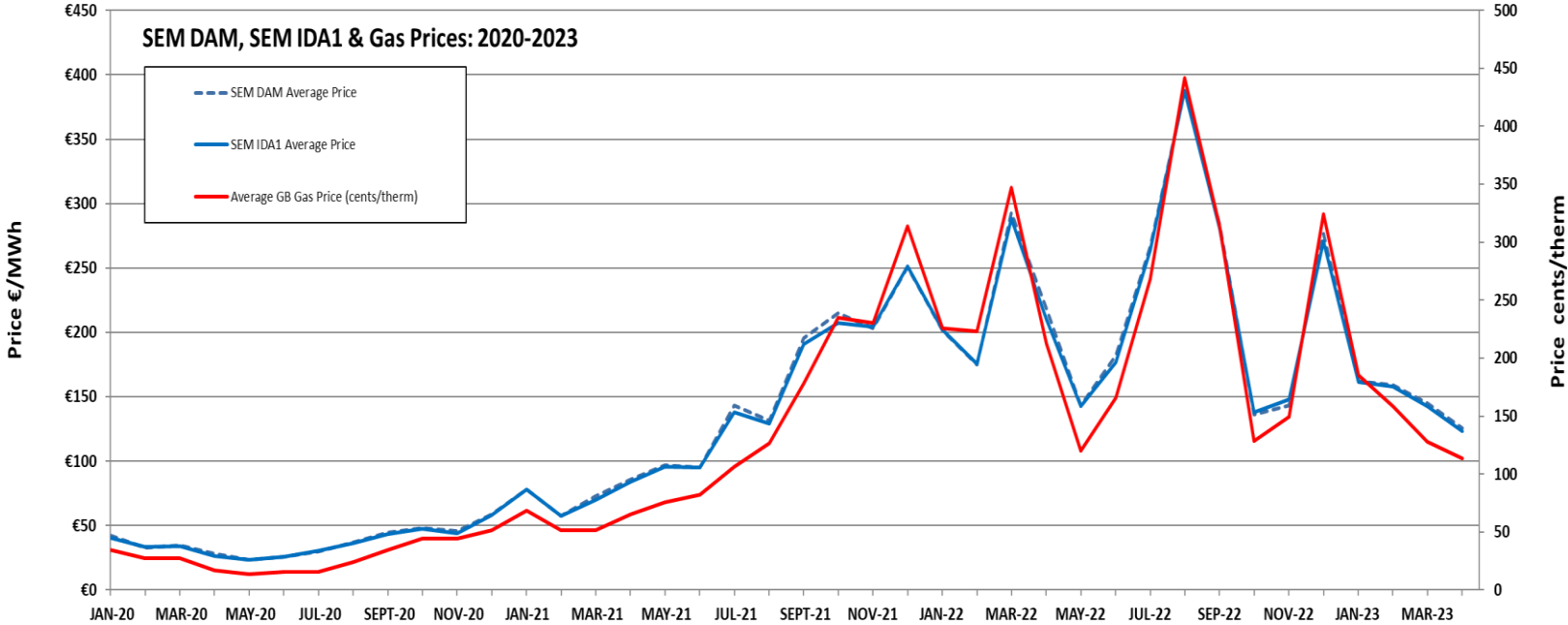
Ex-Ante Markets - Average DAM Prices, GB Gas Price and Wind



- The highest prices in April occurred during periods of low wind and higher net demand.
- Interconnector utilisation decreased slightly in April 2023 when compared to March 2023. This coincided with a decrease in wind generation.
- Higher prices in the SEM favoured import interconnector flows from GB to the SEM.



Ex-Ante Markets - Average DAM price, IDA1 Price and GB Gas Price



- Prices in the SEM continue to reduce in line with falling gas prices.
- Gas prices have continued to decrease from December 2022; although prices are higher when compared with 2020 and the first half of 2021.



Repricing Update

Michael Atcheson



Repricing Update

- Previous backlog of repricing now complete.
- The following dates remain outstanding:

Trading Day	Update Status
05/08/2021 (10 ISPs)	<ul style="list-style-type: none"> • Issue: Application of COD • Under analysis and working to assess materiality.
05/11/2021 (6 ISPs)	<ul style="list-style-type: none"> • Issue: Application of COD • Under analysis and working to assess materiality.
31/01/2023 (19 periods)	<ul style="list-style-type: none"> • Issue: Application of Wind Dispatch Instructions • Aiming to schedule this for publication before end June 2023.



M7, ETS Update

Michael Atcheson



ETS Releases

Version	Content	Client	Impact	Timeline*
V3.7	<ul style="list-style-type: none">TBD			Q3 2023

**Planned go live is subject of successful testing of the given release*



ETS Maintenance Windows

Date & Time	Impact	Reason	Communication
06/06/2023	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
11/07/2023	Maintenance	Ad Hoc Maintenance	OMM message (email sent a week in advance and on the same morning)
08/08/2023	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
12/09/2023	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)

*Regular maintenance: Between 18:40 and 21:15 GMT/IST every 2nd Tuesday of the Month.



M7 Releases

Version	Content	Impact	Timeline
V6.15	API performance: mandatory broadcast queue creation precisions	Introduction of 2 Factor Authentication (2FA), better visibility of order validation breaches, addition of a Notification Pop up in case of Trade Recall Request failure	13/6/23

M7 Maintenance Windows

Date & time	Impact	Reason	Communication
13/06/2023	Maintenance	6.15 Go Live	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
11/07/2023	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
08/08/2023	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
12/09/2023	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)

*Regular maintenance: Between 18:40 and 21:15 GMT/IST every 2nd Tuesday of the Month.

SEMOpX General Update

- SEM-GB Harmonised Minimum and Maximum Clearing Price - Implementation Date (TBC)
 - In line with SDAC, a SEM IntraDay HMMCP methodology has been developed and applied to the SEMOpX IDA's (1, 2 and 3)
 - A summary of the HMMCP methodology is:

Harmonised Maximum Clearing Price	Harmonised Minimum Clearing Price
Harmonised max. clearing price will be increased by €500 EUR/MWh if the clearing price exceeds 70% of the max. price in at least 2 market time units in at least 2 different dates within 30 rolling days from the 1st price spike	Harmonised min. clearing price will be decreased by €100 EUR/MWh if the clearing price exceeds 70% of the max. price in at least 2 market time units in at least 2 different dates within 30 rolling days from the 1st price spike
Implementation of price increase/decrease 28 days after instance has occurred	
The referenced harmonized maximum clearing price for SEM IDA auction shall be +€3000 EU/MWh	
The referenced harmonized minimum clearing price for SEM IDA auction shall be -€150 EU/MWh	
During the period between the event occurring and the price cap increase / price floor decrease, the price cap will remain as the current level.	

- Modification now approved therefore Methodology shall be available from the SEMOpX website

SEMOpX General Update

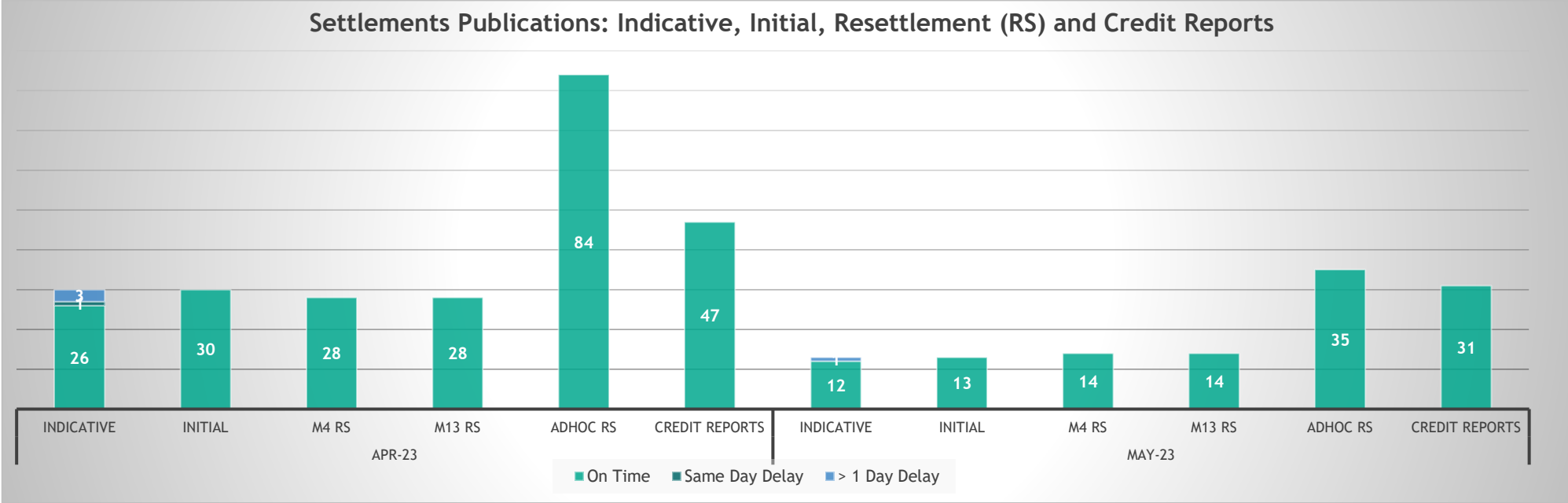
- Increase in SDAC Second Auction Maximum Threshold (previously communicated on 29/11/22)
 - (RECAP)
 - Change enforced by SDAC in December 2022, in line with the increase in the SDAC Price Cap (moving from €3000 to €4000)
 - Second Auction Max. threshold increased from €1500, to 60% of the PCAP which is €2400
 - Procedural change for SDAC
 - No impact for members collateral requirements or systems
 - Modification now approved and shall be reflected in the SEMOpX Operating Procedure

Settlements Update

Patrick Barnes



Settlement publications & timelines: April 2023 - May 2023 (up to 13th May)

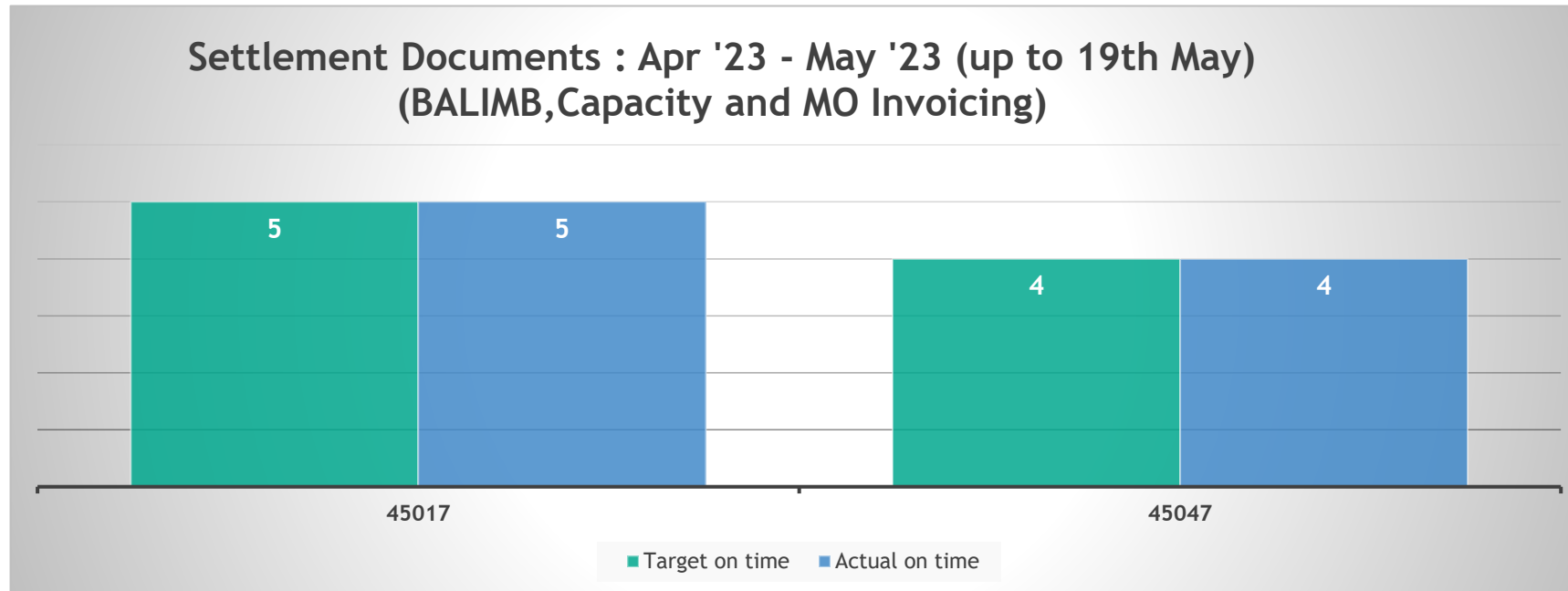


- April 2023**
- **243** settlement publications on time
 - 1 delayed indicative due to late submission of Settlement data from MDPs
 - 3 delayed indicative due to an issue with registration data
 - All issues now resolved

- May (to 13th) 2023**
- **119** settlement publications on time
 - 1 delayed indicative due to an issue with the Settlement System
 - All issues now resolved



Settlement Documents publications & timelines: April '2023 - May (up to 19th) '2023



Settlement Document updates:

- 9 Settlement Documents (SDs) published on time between Apr 2023 and May 19th 2023 (includes BALIMB, Capacity and MO Invoices)
- FMO rate issue for MO invoice published on Nov 15th : [Market message published](#) on the 18/11/2022. See next slide for a further update.

Settlements: Oct 2022 FMOC invoice update

- FMOC Invoice published on Nov 15th included the incorrect CMOAU and CMOAV rates for ROI and NI market participants: Ref: [Market message](#) published on the 18/11/2022.
 - As per updates provided at the MOUG on Dec 15th , SEMO Settlements are intending to publish an Oct 2022 MO Invoice which will reverse the original invoice issued, and to then re-publish the correct Oct 2022 MO invoice with the correct rates. The application of any interest due on the corrected invoice amounts is being investigated.
 - Due to a dependency on the readiness of an end-to-end test environment required to complete the testing of this approach, this testing is now likely to be aligned with Release K UAT testing timelines (April / May) , with a definitive publication date to be confirmed with market participants once the scenario has been fully replicated and tested in the systems test environment.



Ad hoc resettlement: Status update May 2023

Ad hoc resettlement: Status update May 2023

Ad Hoc Iteration 1:

The original iteration of Ad Hoc Settlement now has an end date for publication. Week 21 2021 ending 29/05/2021 is due to be included in the Settlement Documents on 07/07/2023.

In order to complete the CRM and MO month of May 2021, we have had to publish 30/05/2021 and 31/05/2021 as single days rather than the full billing week 22.

Ad Hoc Iteration 2:

We are now reviewing Ad Hoc Iteration 2 and any further ‘clean up’ weeks that are needed. We will communicate these weeks for publication when they are available. A number of system defects remain that are causing some blockages and these will be managed accordingly.



Settlement Documents to issue Friday 26th May 2023

[Settlement Calendar \(sem-o.com\)](http://sem-o.com)

Settlement Documents Friday 26th May
INITIAL BALIMB - (14/05/23-20/05/23) - Week 20 2023
M+4 BALIMB - (22/01/23-28/01/23- Week 04 2023
M+13 BALIMB - (24/04/22-30/04/22) - Week 17 2022 M+13 CRM - April 2022
AH BALIMB - (21/03/21 - 27/03/21) - Week 12 2021 - IT1



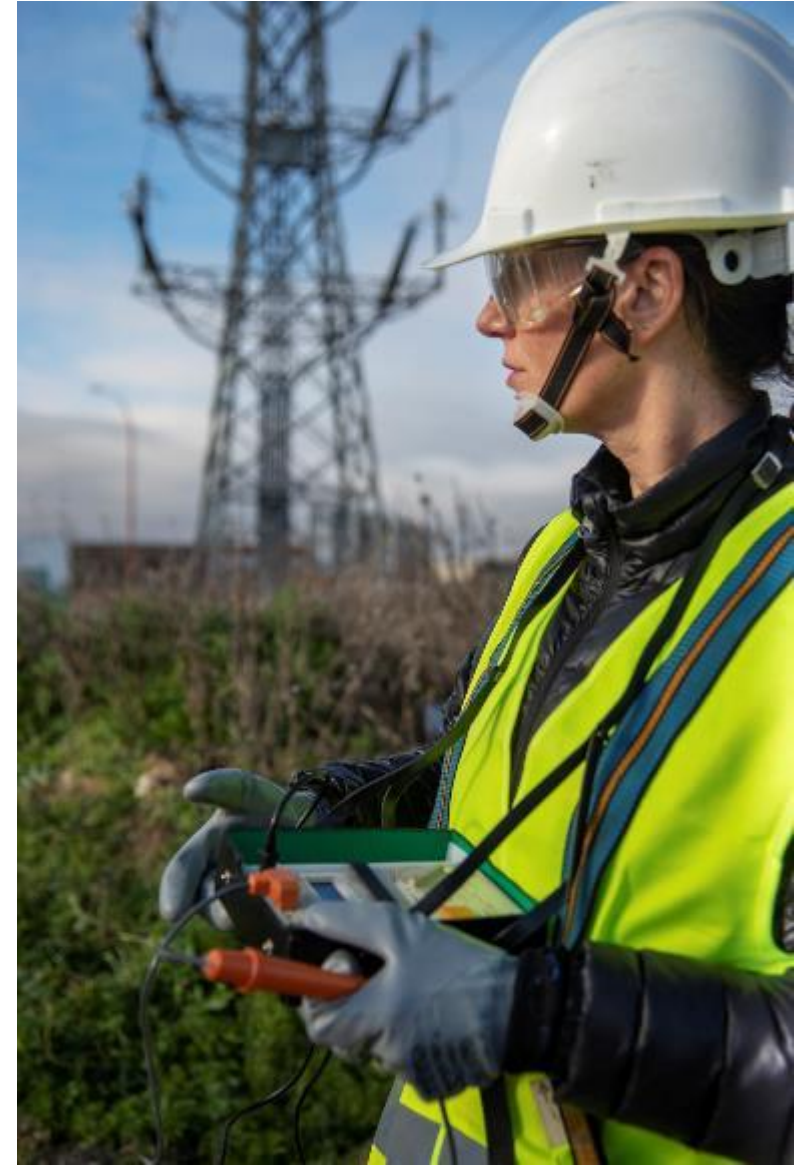
System Operator Update

Emma Morris



System Operator Update

- Generator availability throughout April/May good
- Only four large generators currently available in NI
- Market flows have generally been into IE and NI when margins have been tightest
- Good amount of wind over April, May has been a lower wind month
- Beginning to see impact of embedded solar across the island
- Continued engagement with National Grid and other European TSOs on a weekly basis
- ENTSO-E Summer Outlook will be published soon
 - Does not highlight any issues for NI
 - Indicates that margins will be tight in IE in September



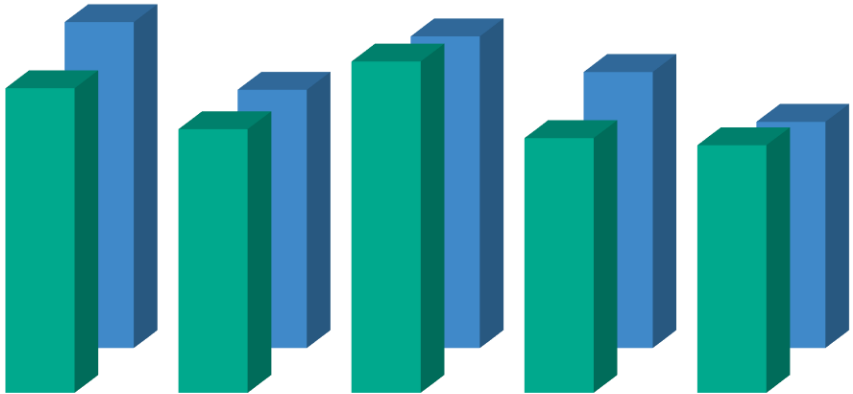
Market Interface

Fergus O'Boyle

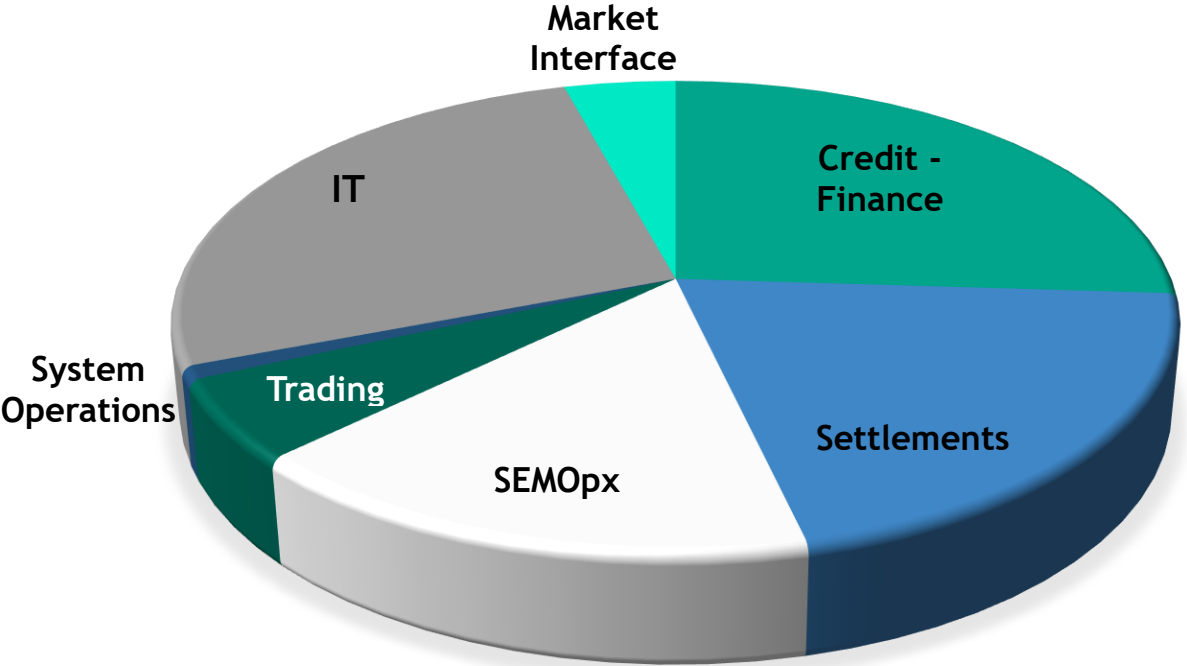


General and SEMOpx Queries: January 2023 - 19th May 2023

Received - 787
 Resolved - 785



	January	February	March	April	May
Received	171	148	186	143	139
Resolved	183	145	175	155	127



Formal Queries and Disputes: January to 23rd of May 2023

Formal Queries:

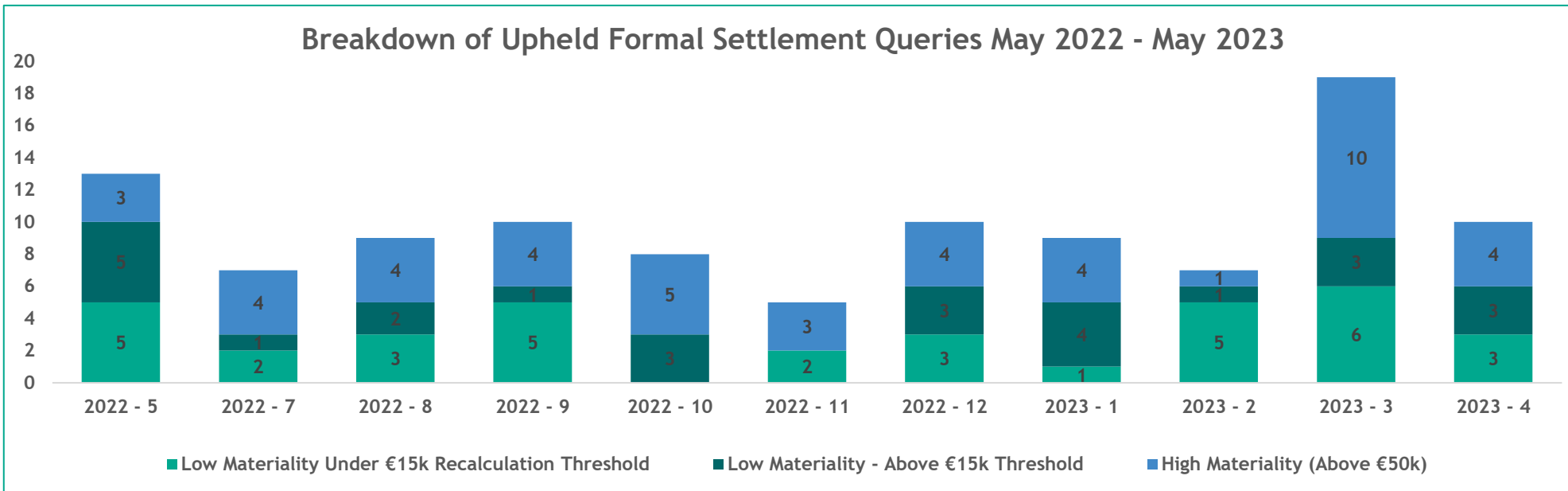
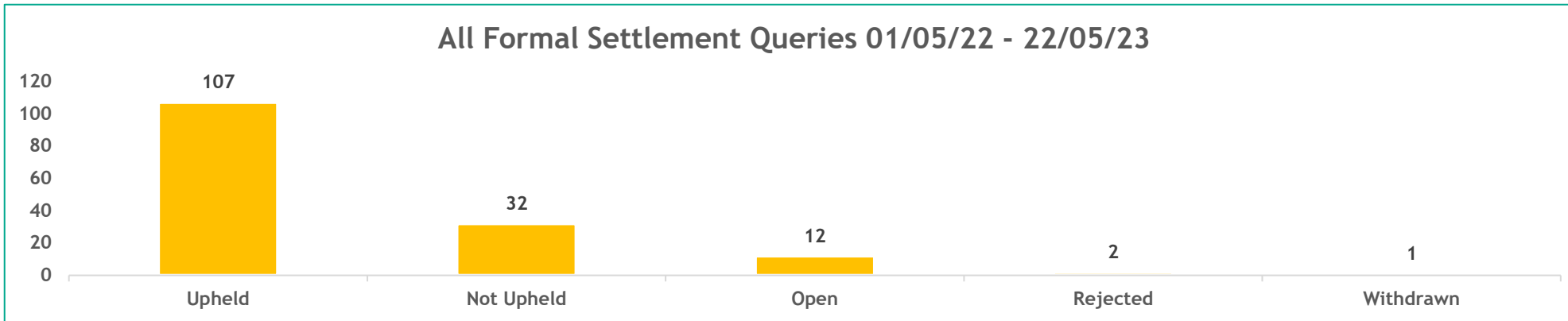
64 Formal Queries were received, of which 55 are now completed (48 were upheld and 7 were not upheld) and 9 are ongoing.

Disputes:

One General Dispute was raised in this period.



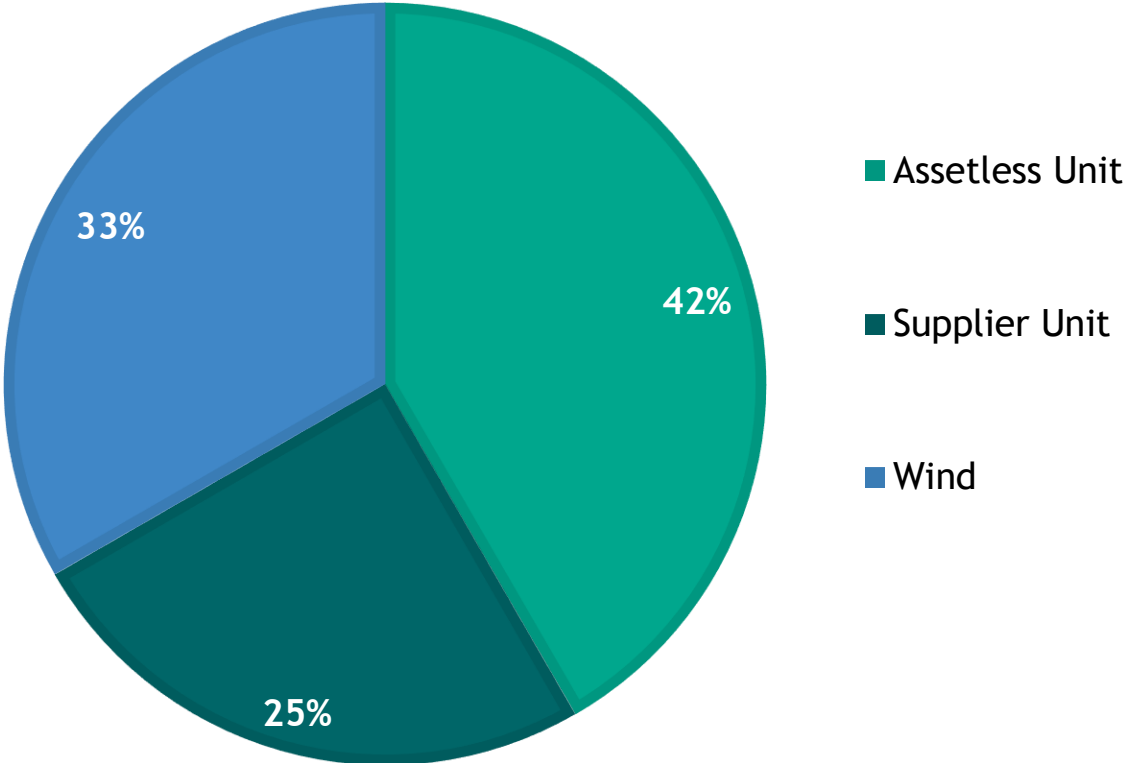
Formal Settlement Queries May 2022 to date



Balancing Market Registration: January - May 2023

- 3 new Parties joined the market
- 12 unit registrations
- 2 unit deregistrations

Breakdown by Unit Type: Jan - May 2023



Close

- SEMO Website: <http://www.sem-o.com/>
- SEMOpx Website: <http://www.semopx.com/>
- Queries: info@sem-o.com; info@semopx.com
- Capacity Market: CapacityMarket@sem-o.com



Thank you for your attendance.

