

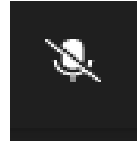
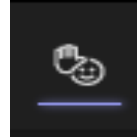
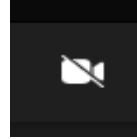
19/04/2023

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
Release Program Update	Mark Hogan
Ex-Ante Markets	Michael Rainey
Repricing Update	Michael Atcheson
M7, ETS Update	Michael Atcheson
Temporary Emergency Generation Update	Michael Kelly/Diarmuid Gillespie/Robert Koch
Settlements Update	Patrick Barnes
Market Interface Update	Rosaleen Fanning
Q&A	



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

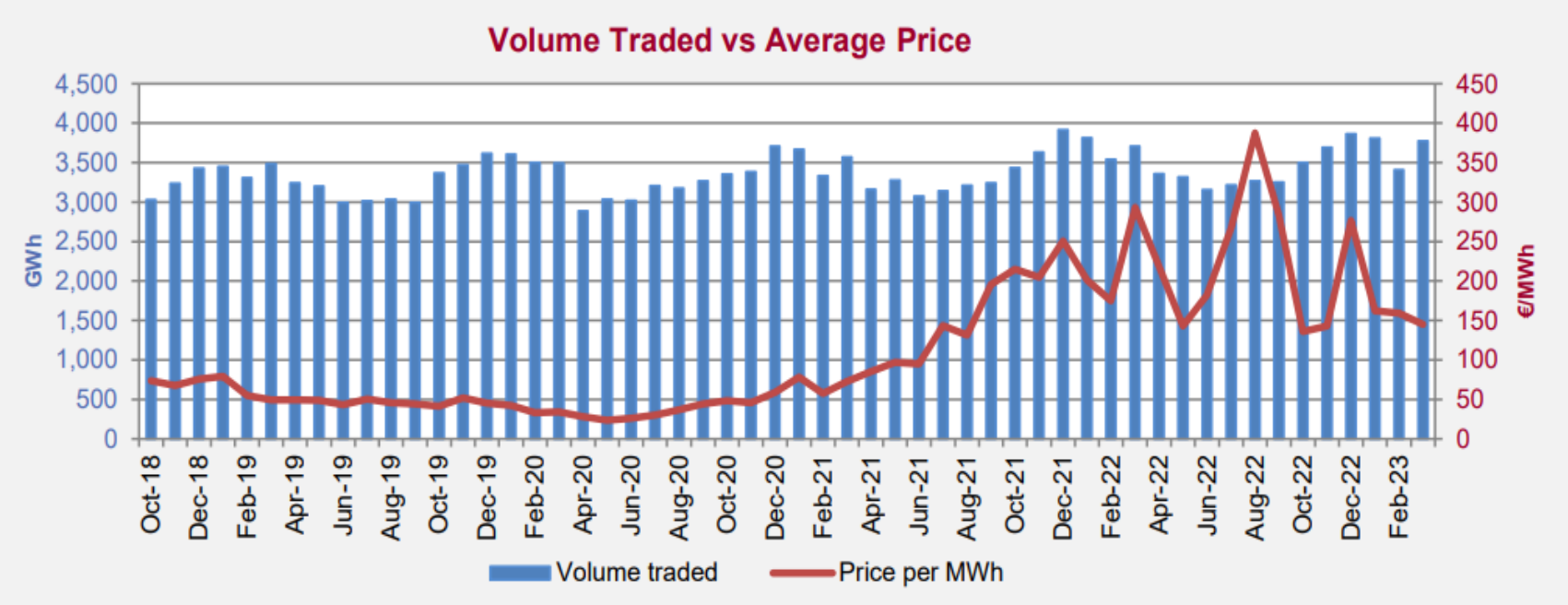


Ex-Ante Markets

Michael Rainey



Ex-Ante Markets - DAM Monthly Volumes and Prices

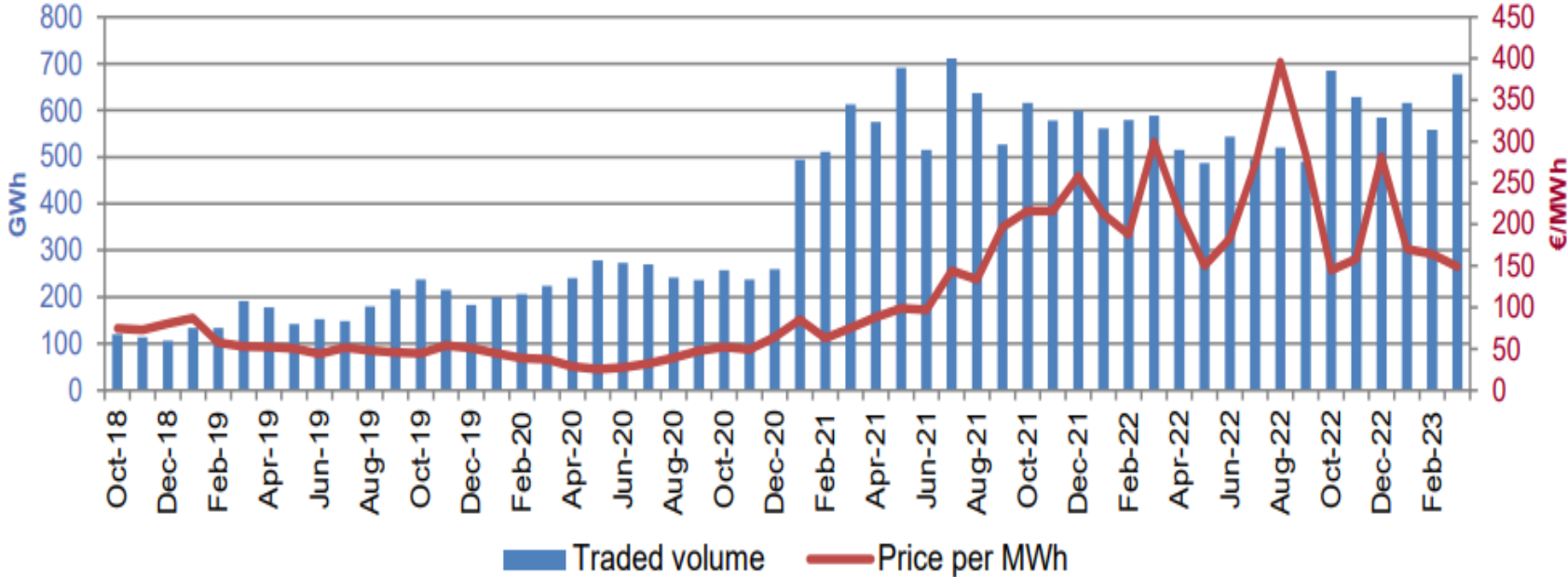


- Traded volumes in the DAM remain at similar levels to historical trends.
- DAM prices fell sharply in January 2023 compared to December 2022 (approx. 40% decrease).
- There was a 43% decrease in GB gas prices between December 2022 and January 2023.



Ex-Ante Markets - IDA Monthly Volumes and Prices

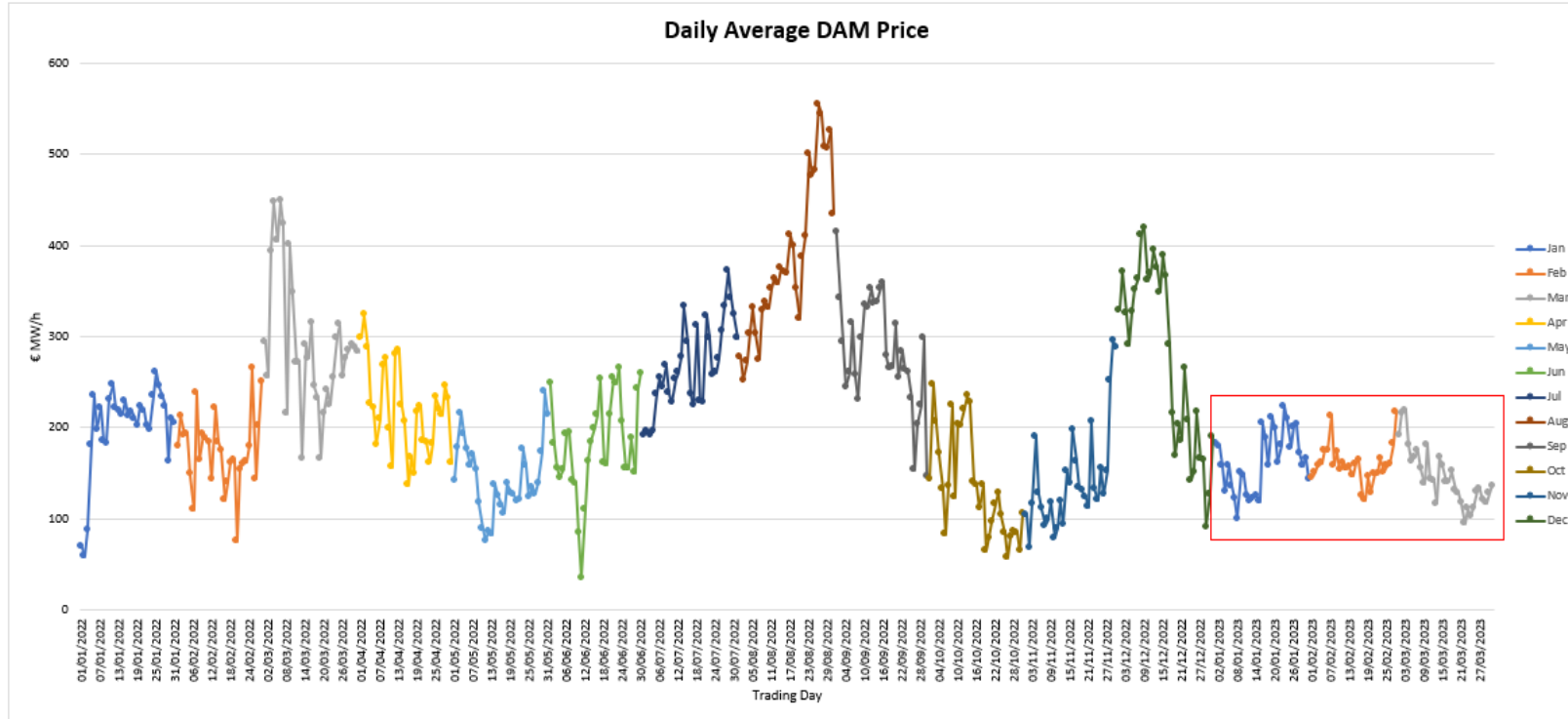
Volume Traded vs Average Price



- Price trends follow a very similar pattern to DAM.
- Higher volumes in March may be attributed to low wind and higher net demand, particularly at the beginning of the month.



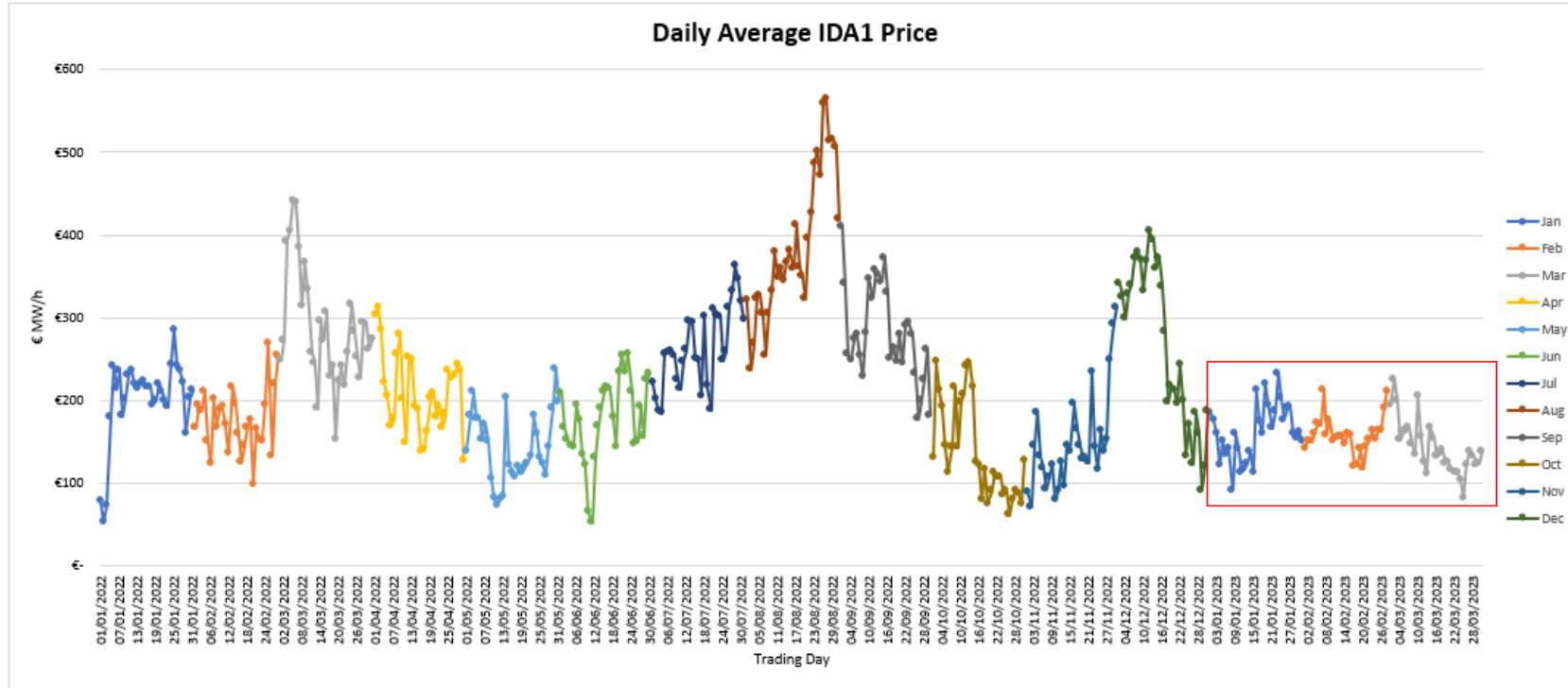
Ex-Ante Markets - DAM Daily Prices



- The highest price between January and March 2023 cleared at approx. €220. This compares with a high of approx. €450 between January and March 2022.
- Higher prices occurred during periods of low wind and higher net demand.



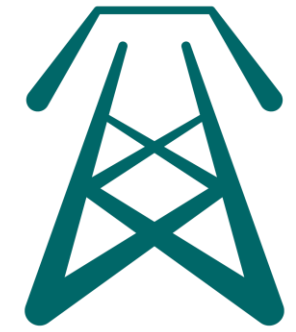
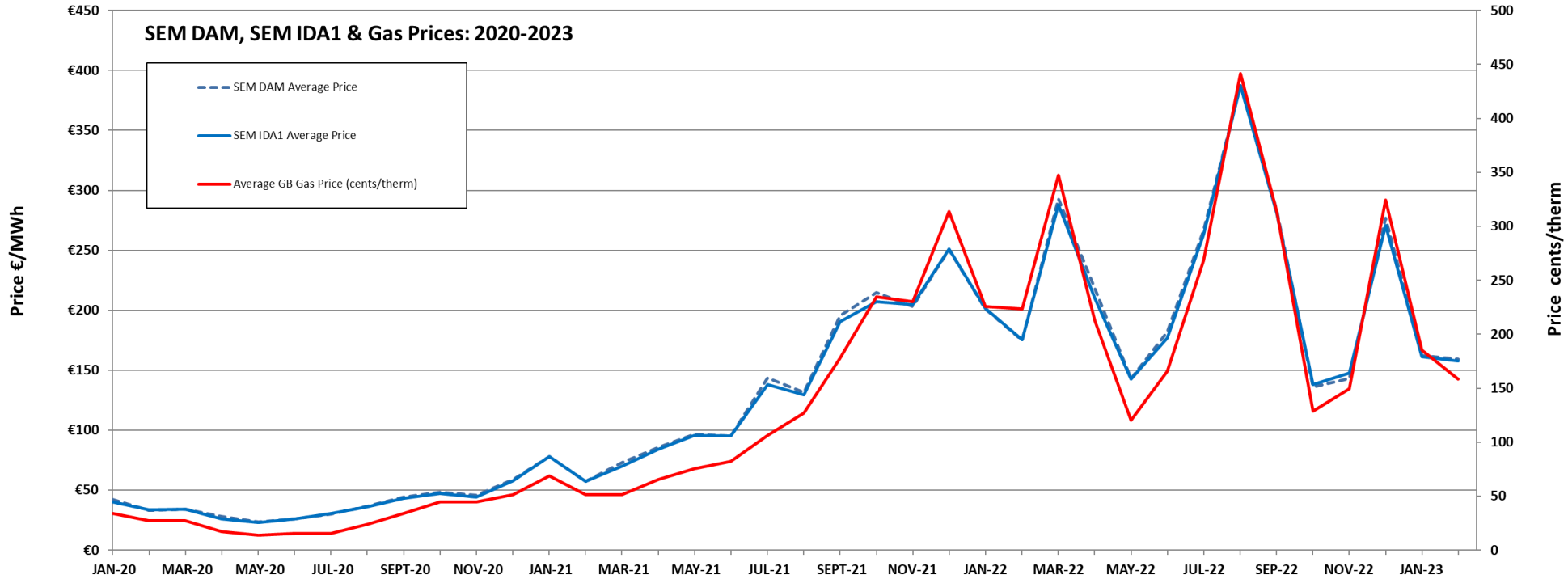
Ex-Ante Markets - IDA1 Daily Prices



- The highest price between January and March 2023 cleared at approx. €230 whilst the lowest price cleared at approx. €80. This compares with a high of approx. €440 between January and March 2022.
- The peak price in December 2022 was approx. €400.

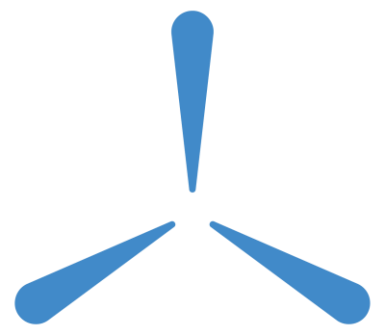
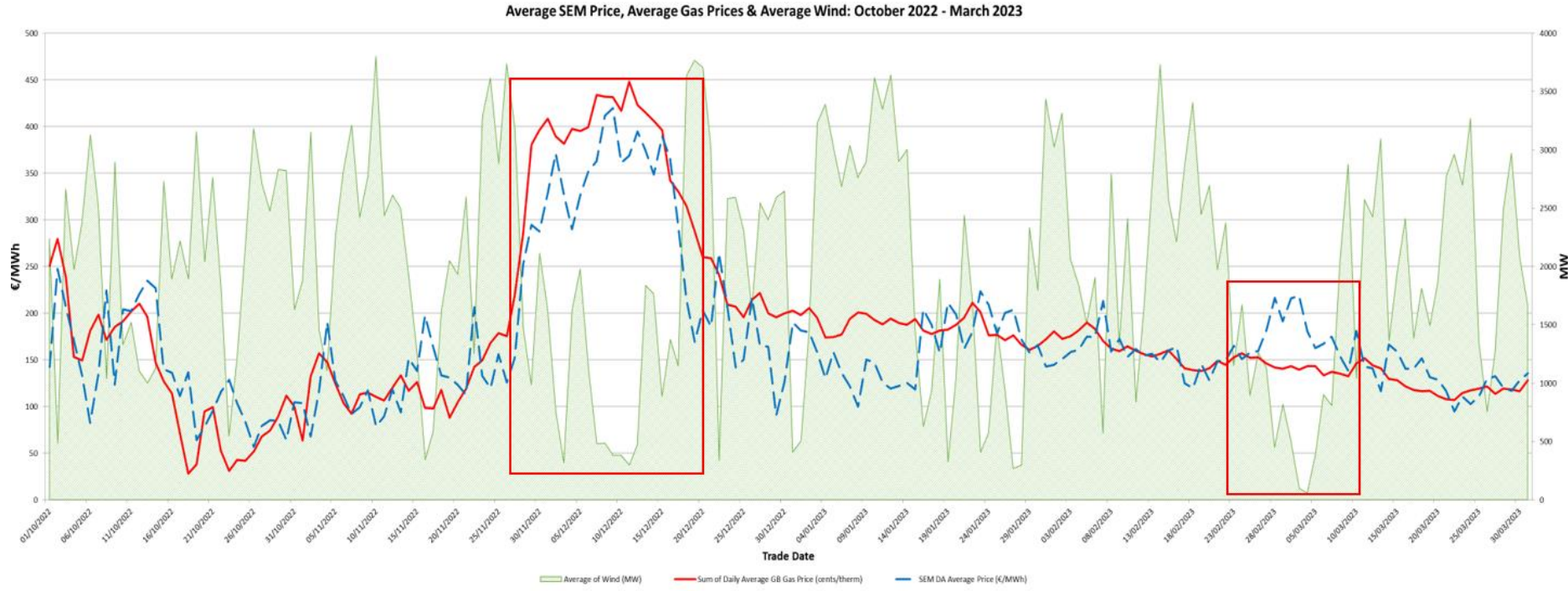


Ex-Ante Markets - Average DAM Price, IDA1 Price and GB Gas Price



- SEM prices have fallen since the spike in December 2022. There was a similar decrease in gas prices over this period.
- Falling gas prices are being seen as the winter heating demand begins to fall.
- Due to a mild winter and measures taken to increase storage and reduce demand, stocks of gas in Europe are higher than expected.

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



- There was a noticeable spike in prices at the beginning of March 2023. There was low wind on these dates with more thermal generation clearing in the ex-ante auctions.
- Prices continued to reduce in line with lower gas prices.

Repricing Update

Michael Atcheson



Repricing Update

- Five calendar days assessed to date;
 - 3 days contained price changes > Materiality Threshold (5%)
 - 2 days contained no price changes > Materiality Threshold
- Four further repricing batches currently scheduled for publication between today and 18th May 2023.
- Remainder of the open periods primarily relate to a minor defect in the setting of PMEA. Issue is sporadic and not expected to result in significant price changes.



M7, ETS Update

Michael Atcheson



ETS Releases

Version	Content	Client	Impact	Timeline*
V3.7	<ul style="list-style-type: none">TBD			Q2 / 3 2023

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



ETS Maintenance Windows

Date & Time	Impact	Reason	Communication
11/04/2023	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
09/05/2023	Maintenance	Ad Hoc Maintenance	OMM message (email sent a week in advance and on the same morning)
06/06/2023	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
11/07/2023	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	Release notes / Impact to be sent.	TBD	Q2 / 3 2023

M7 Maintenance Windows

Date & time	Impact	Reason	Communication
11/04/2023	Maintenance	Monthly Maintenance	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/05/2023	Maintenance	Monthly Maintenance	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
06/06/2023	Maintenance	Monthly Maintenance	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	Monthly Maintenance	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.



Temporary Emergency Generation Update

Michael Kelly / Diarmuid Gillespie / Robert Koch



19 April 2023

Security of Supply: Temporary Emergency Generation (TEG)

Market & System Operations Treatment

TEG1 - Gas

- North Wall ESB PG: 200 MW
- Huntstown HPCL: 50 MW

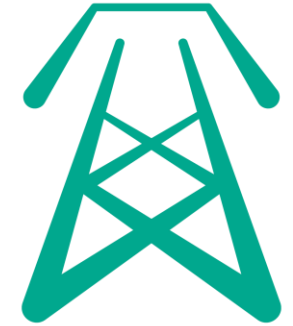
TEG2 - Distillate

- Shannonbridge ESB PG: 262 MW
- Tarbert SSE: 150 MW



Market Treatment Objectives

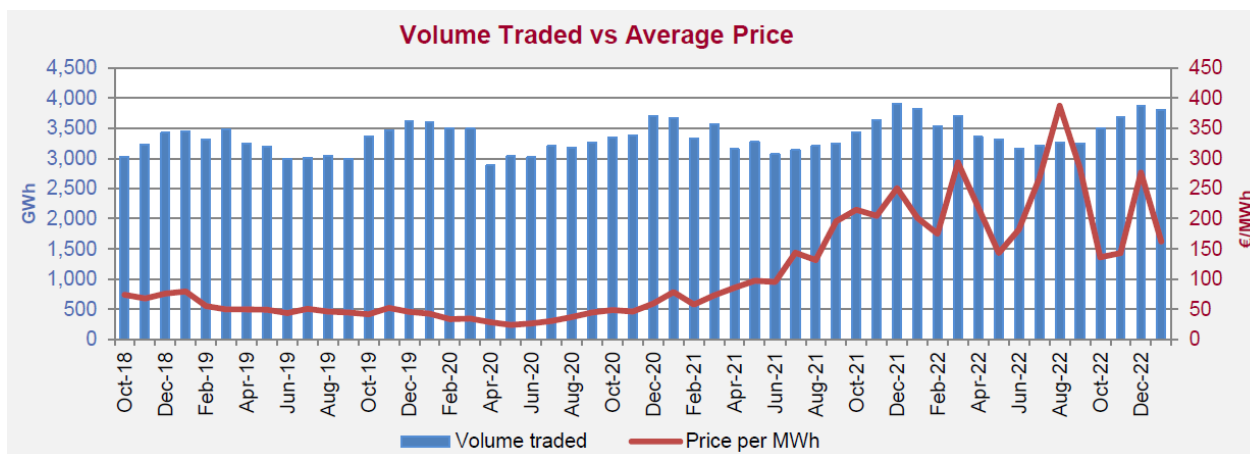
- Minimise impact on the wholesale markets
- Utilise existing systems and processes to the extent possible
- Match to scale and complexity required
 - Units with different technical and commercial characteristics leading to optimisation complexity
- Adopt single approach for all non-market generation
- Should not impede security of supply actions



Ex-ante markets

- Will not be allowed to participate in ex-ante markets
- Ex-ante market prices and volumes should be unaffected
- Ex-ante market imports/exports schedules will not be impacted
- No ex-ante market revenue for ASSG

semopx



Capacity Market

- Will not participate in capacity market auctions
- Will not hold an RO or receive capacity market payments
 - Will not be subject to difference charges
- May impact on socialisation fund ‘hole in the hedge’



Balancing Market [1]

- Will not participate like other market units
- Will not normally be available for balancing actions
 - Only available when security of supply risk has been identified and where it is evident that market-based measures alone are not sufficient to prevent a further deterioration of the electricity supply situation
 - Policy in relation to security of supply trigger threshold will be subject to CRU approval
 - Will be made unavailable to BM when security of supply risk has abated
- Will submit complex offers subject to BCOP
- Will not submit simple offers



Balancing Market [2]

- Commitment and dispatch will be based on high offer price to minimise utilisation
- All actions will be flagged as non-energy
- Will receive payments and charges from the balancing market
- Will appear in BM reports



Ancillary Services

- Will not receive revenue for ancillary services

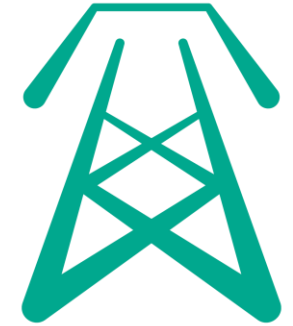


Questions?



System Operations Treatment Objectives

- Secure the power system in line with the direction from CRU
- Minimise the impact on the wholesale markets
- Minimise as far as possible the need to dispatch non-market units
- Integrate with existing power system emergency procedures & processes



Background - System States

Regulation (EU) 2017/1489 (SOGL)

- Each TSO shall endeavour to ensure that its transmission system remains in the normal state and shall be responsible for managing operational security violations.
- To achieve that objective, each TSO shall design, prepare and activate remedial actions taking into account their availability, the time and resources needed for their activation and any conditions external to the transmission system which are relevant for each remedial action.

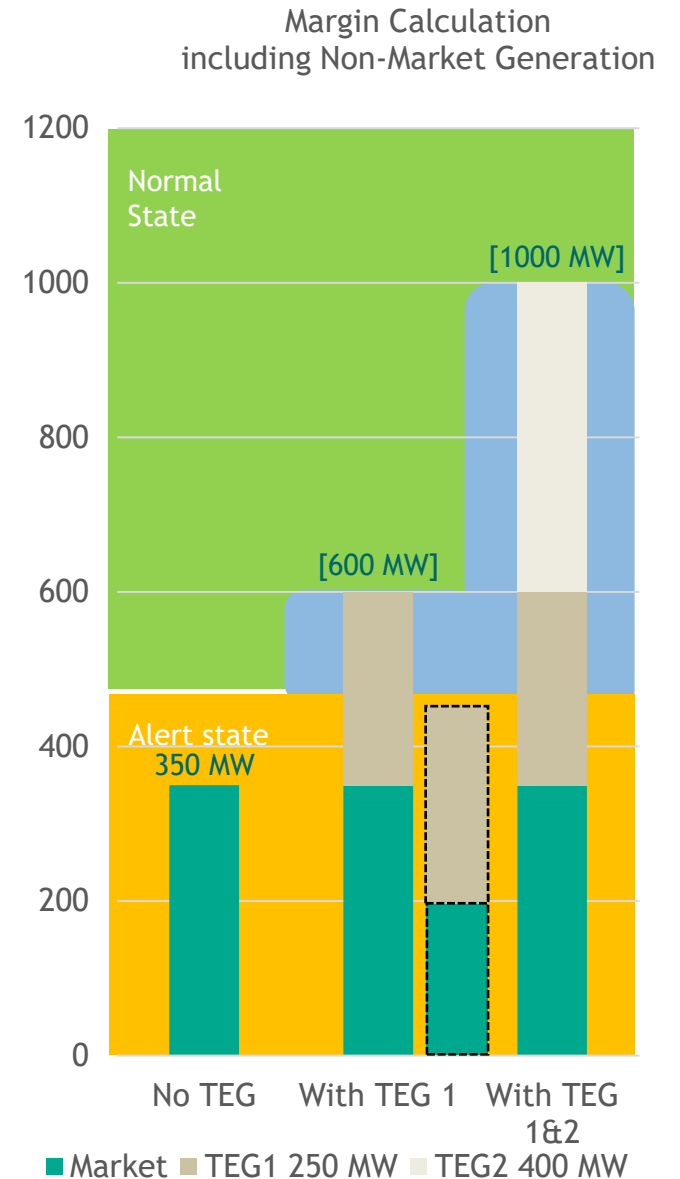
System State Description (summary)

Normal	Will remain within operational security limits following the occurrence of a contingency (after activation of remedial actions)
Alert	A contingency leads to a violation of the TSO's operational security limits (after the activation of remedial actions)
Emergency	At least one violation of operational security limits, or At least one measure of the Defence Plan is activated (Demand Control)

Margin = additional capacity over meeting demand loss of generation

TEG impact on System States

- TEG is not normally included in margin calculations.
- A **System Market Notice (Margin Warning)** should be issued when the system would be in **Alert** or **Emergency** state in the absence of TEG.
- The system may remain in **Normal** state when TEG is included in margin calculations.
- TEG units should only be dispatched when a **Margin Warning** has been issued, AND where it is evident that market-based measures alone are not sufficient to prevent a further deterioration of the electricity supply situation - also having considered energy limited resources on the day (e.g. hydro, batteries, DSU's).
- An **Alert** or **Emergency** state will be issued including TEG in margin calculations.



Indicative real-time SO actions (time dependant)

System State	Communication	Actions
Normal		Continuous scheduling & dispatch (incl. DSUs, Peakers, Batteries) Maximise N/S tie-line Interconnector trades
	<div style="border: 1px dashed black; padding: 5px; width: fit-content;"> Alert <i>no TEG units in margin</i> </div>	Margin Warning issued Include available TEG capacity in margin calculations Interconnector trades to avoid TEG dispatch Dispatch TEG units Interconnector trades to minimise TEG dispatch
Alert <i>[with TEG units]</i>	Alert State issued	Interconnector Emergency Assistance requested LEU's prepare for Mandatory Demand Curtailment DSO prepares for Demand Disconnection
	Public Appeal	Public / LEU request for voluntary demand reduction
Emergency <i>[with TEG units]</i>	Emergency state issued	Interconnector Emergency Instruction (0 MW if exporting) LEU Mandatory Demand Curtailment (1 hr notice) DSO Demand Disconnection

Related considerations

Outage Planning

- TEG will not be included in margin calculations in the scheduling of planned outages.

Prioritisation of TEG sites

- Will be based on operational considerations at the time, including available run-hours, operating cost (gas vs distillate), logistics (replenishment of fuel stocks).



Communication / Reporting

- The System Margin Outlook* will exclude TEG capacity from dispatchable generation margin, but will include an indication of the risk of a System Alert being issued.
 - * (published twice a week on the SEMO website)
- Market messages should be issued in real-time (**Margin Warning**).
- Reports on margin warnings and TEG dispatch will be submitted to the CRU.



Questions?



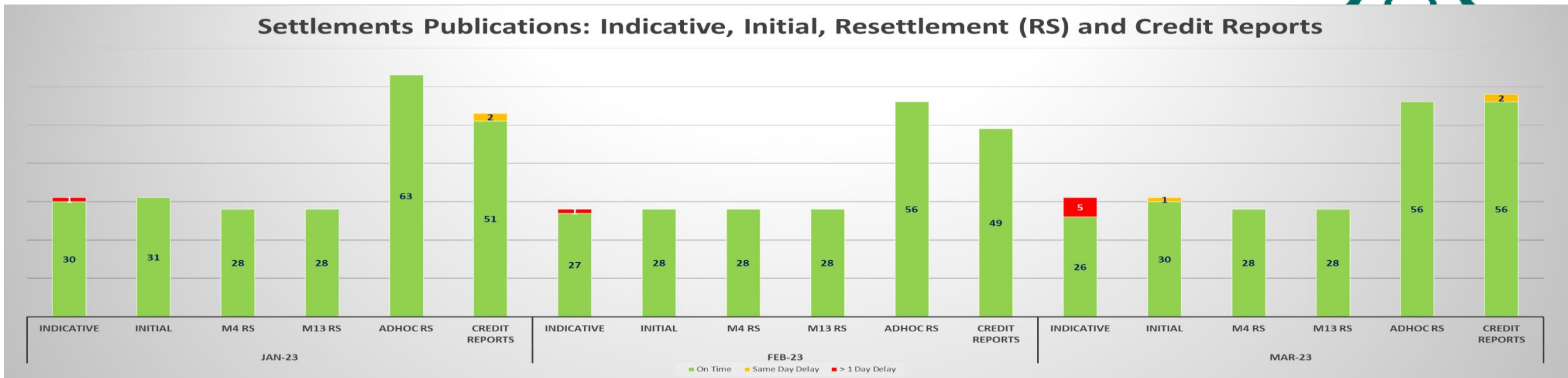
Settlements Update

Patrick Barnes



Settlement publications & timelines: Jan 2023 - March 2023

Settlements Publications: Indicative, Initial, Resettlement (RS) and Credit Reports



Jan 2023

- **231** settlement publications on time
- 1 delayed indicative due to an Instruction Profiler data flow issue.
- All issues now resolved

Feb 2023

- **216** settlement publications on time
- 1 delayed indicative due to a delay in receiving metering data.
- All issues now resolved

Mar 2023

- **224** settlement publications on time
- 5 delayed indicatives, 1 due to an Instruction Profiler data flow issue. 4 due to a manual registration error.
- 1 delayed initial due to an Instruction Profiler data flow issue.
- All issues now resolved

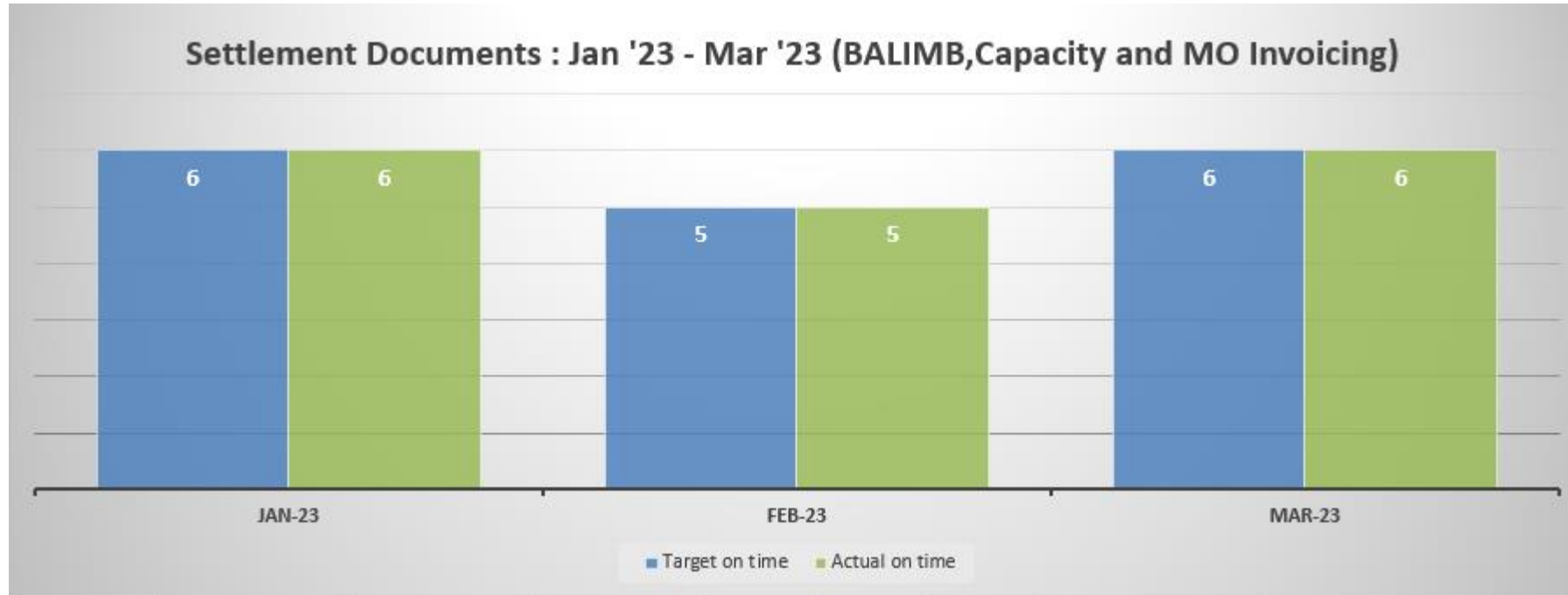
Settlement publications & timelines: Jan 2023 - March 2023

Indicative Delays and Issues for 28th – 31st March

- 28/03/2023 - 31/03/2023 A manual error was made during the registration process of a new unit. This issue meant that a number of metering files could not be accepted by the market systems.
- A script was required from the vendor which was requested on the same day as the issue was discovered (Wednesday 29th March).
- Once this was tested and deployed into production, the issue was fixed with the back log of indicatives caught up on Monday 3rd April.



Settlement Documents publications & timelines: Jan 2023 - Mar 2023



Settlement Document updates:

- 17 Settlement Documents (SDs) published on time between Jan 2023 and March 2023 (includes BALIMB, Capacity and MO Invoices)
- **FMOC 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 April 2023

Ad hoc resettlement: Status update April 2023

2018													
39	40	41	42	43	44	45	46	47	48	49	50	51	52

2019																																																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

2020																																																						
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53			

2021																																																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	

Ad hoc summary : Mar-21 to April-2023

- Ad hoc iteration 1 resettlement is up to the 30/01/2021. 122 weeks / billing periods processed and published to date.
- Ad hoc iteration 2 resettlement is up to the 01/06/2019. 23 weeks / billing periods processed and published to date
- 2018 Ad hoc resettlement is closed out
- 22 weeks of Adhoc processed in Q2 (Jan 2023 - Mar 2023) meeting KPI target of 18 weeks over a 12-week period



Ad hoc resettlement: Status update April 2023

Ad hoc Iterations 1 & 2 - Completed and yet to process:

- There are 22 weeks left to process in Ad hoc iteration 1
- There are 32 weeks to date to process in the Adhoc iteration 2 - This includes any weeks that still need closed out after iteration 1
- Business-as-usual (BAU) Ad hoc resettlement in parallel to Ad hoc iterations 1 and 2;
 - As committed to at the MOUG in Nov 2022, BAU Ad hoc resettlement has started for applicable upheld formal queries submitted after Oct 1st 2022
 - For the months of Jan - April 2023, there were 5 applicable upheld formal queries processed and published as BAU Ad hoc resettlement. With 2 more due for publication over the next 2 weeks.



Settlement Documents to issue Friday 21st April 2023

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



Settlement Documents <u>Friday 21st April</u>
INITIAL BALIMB – (09/04/23-15/04/23) – Week 15 2023
M+4 BALIMB – (18/12/22-24/12/22)– Week 51 2022
M+13 BALIMB – (20/03/22-26/03/22) – Week 12 2022
AH BALIMB – (31/01/21 – 06/02/21) – Week 05 2020 – IT1 AH BALIMB – (07/02/21 – 13/02/21) – Week 06 2020 – IT1 AH CRM – Jan 2021

Questions?



Market Interface Update

Rosaleen Fanning

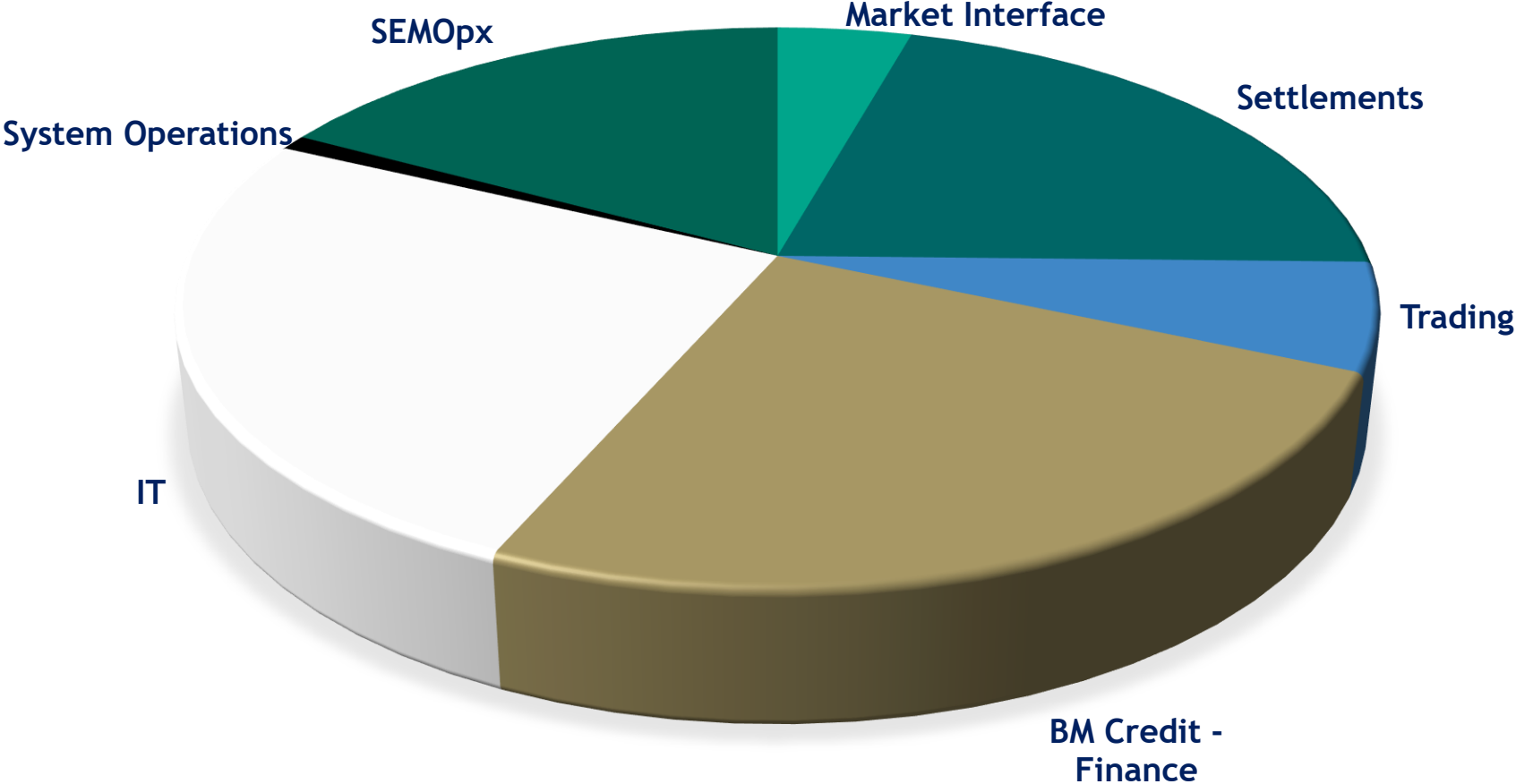


General Queries

Since the beginning of the market (1st October 2018); 9,783 queries have been received and 9,764 are already closed.

- Received - 449
- Resolved - 440

(23rd January – 14th April 2023)



Formal Queries and Disputes: 26th January to 14th April 2023

Formal Queries:

31 Formal Queries were received, of which 23 are now completed (22 were upheld and 1 was not upheld) and 8 are ongoing.



Disputes:

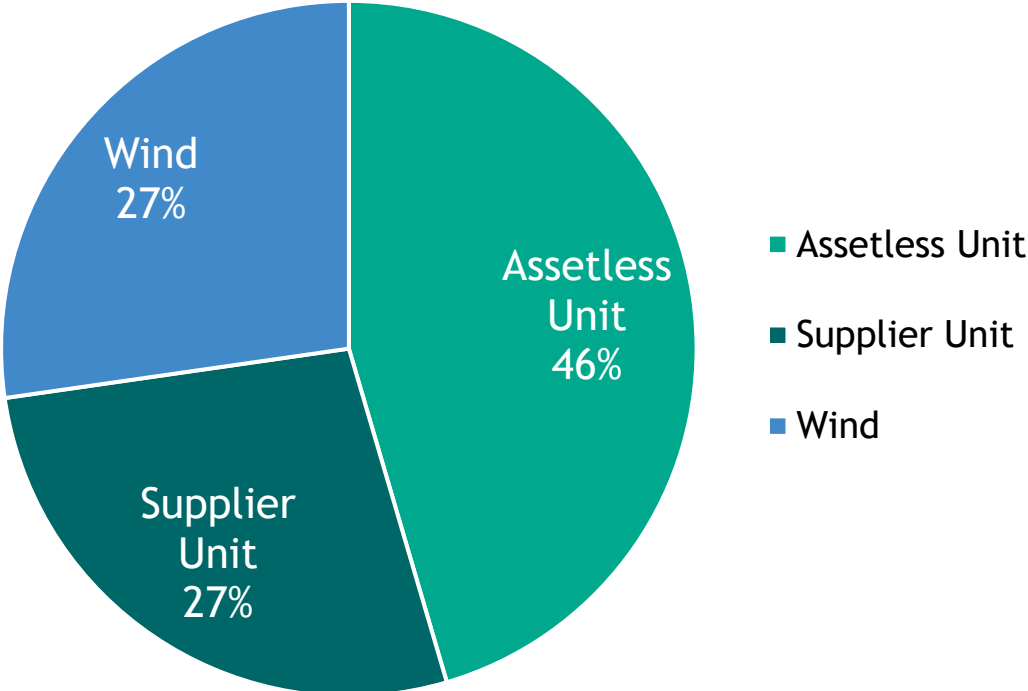
There were no Disputes raised in this period.



Balancing Market Registration: January - April 2023

- 3 new Parties joined the market
- 11 unit registrations
- 1 unit deregistration

Breakdown by Unit Type: January - April '23



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.

