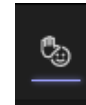
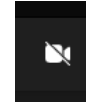


Market Operator User Group

26th May 2022

Housekeeping Rules

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



Thank you for your cooperation

Agenda

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Welcome	Anne Fitzgerald
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SEMO FY2021/22 CAPEX – PROJECT UPDATE
01 OCT 21 – 31 MAR 2022

SEMO CapEx 1 Oct 21 – 31 Mar 22

SEMO Capital Spend FY2021/22	2021/22 Capital Allowance	2021/22 Actual Spend (01 Oct – 31 Mar)	2021/22 Assets under Construction (01 Oct – 31 Mar)
	€'mil	€'mil	€'mil
Total System Release Capital	5.72	2.28	2.20
Market System Releases	4.62	2.18	1.58
Market System Release Support	1.1	0.10	0.62
Total Predictable Capital	1.88	0.00	0.30
SEM Infrastructure Refresh	1.32		0.30
Automated Test Capability	0.33		
Website Development	0.23		
Total Unpredictable Capital	1.44	0.23	0.17
MMS Performance Enhancements		0.12	
Additional Market Environments		0.01	
Other		0.10	0.17
Total Capital FY21/22 (YTD)	9.04	2.51	2.67

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 FY21/22 Assets under construction** includes:
 - any project that was not complete as at 30 September 2021; and
 - any new projects begun after 01 October 2021.

SEMO CapEx – Actual Spend

- **Market System Release Capital and Release Support Capital**
- The following scheduled release activity was undertaken in the period 01 Oct – 31 Mar FY2021/22
 - Release H – November 2021
 - Release H.1 – January 2022
- Releases that were underway in FY2021/22 (Release I, J and K) will be capitalised and added to the asset base once deployed in production.

- **MMS Performance Enhancements & Additional Market Environments:**
- Disaster Recovery
- Site switching capability
- Duplicating the live environment

Assets Under Construction - Project Update

- **Market System Release and Release Support Capital**
 - Release J is scheduled to begin Factory Acceptance Testing in June. Deployment is currently scheduled for November 2022.
 - The release management, testing and business analysis required to support the respective releases continues. These will be added to the RAB after the deployment of the release.
- **SEM Infrastructure Refresh**
 - This will be included as part of Release J and will include the upgrading and splitting of databases. (It should be noted that there is a current risk to hardware delivery from global supply chain issues which may affect scheduled delivery). We will also be upgrading 3rd party computational software.
 - Separate Market Archive project temporarily on hold due to focus on Release delivery and design considerations.
- **Website Development**
 - The scoping currently underway, feedback from participants currently being assessed, further updates to follow.
- **Internal Automated Test Capability**
 - This project is currently in its planning phase.
- **Other Unpredictable CapEx**
 - Market Archive

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Market Release Program Update: Release J scope

#	CR Ref	Description
1	CR-224	Participant user updates in the MPI
2	CR-226	Registration screens
3	CR-259	Intermediary option for Supplier Units in the MPI
4	CR-227	End Date Users in MPI
5	CR-253 / Mod_30_19	Payment for Energy Consumption in SEM for non-energy Services Dispatch
6	CR-238	ISEM OUI Global Parameters (ADMIN) changes
7	CR-239	CSB Data Exchange Screen
8	CR-219a	Penalty Costs

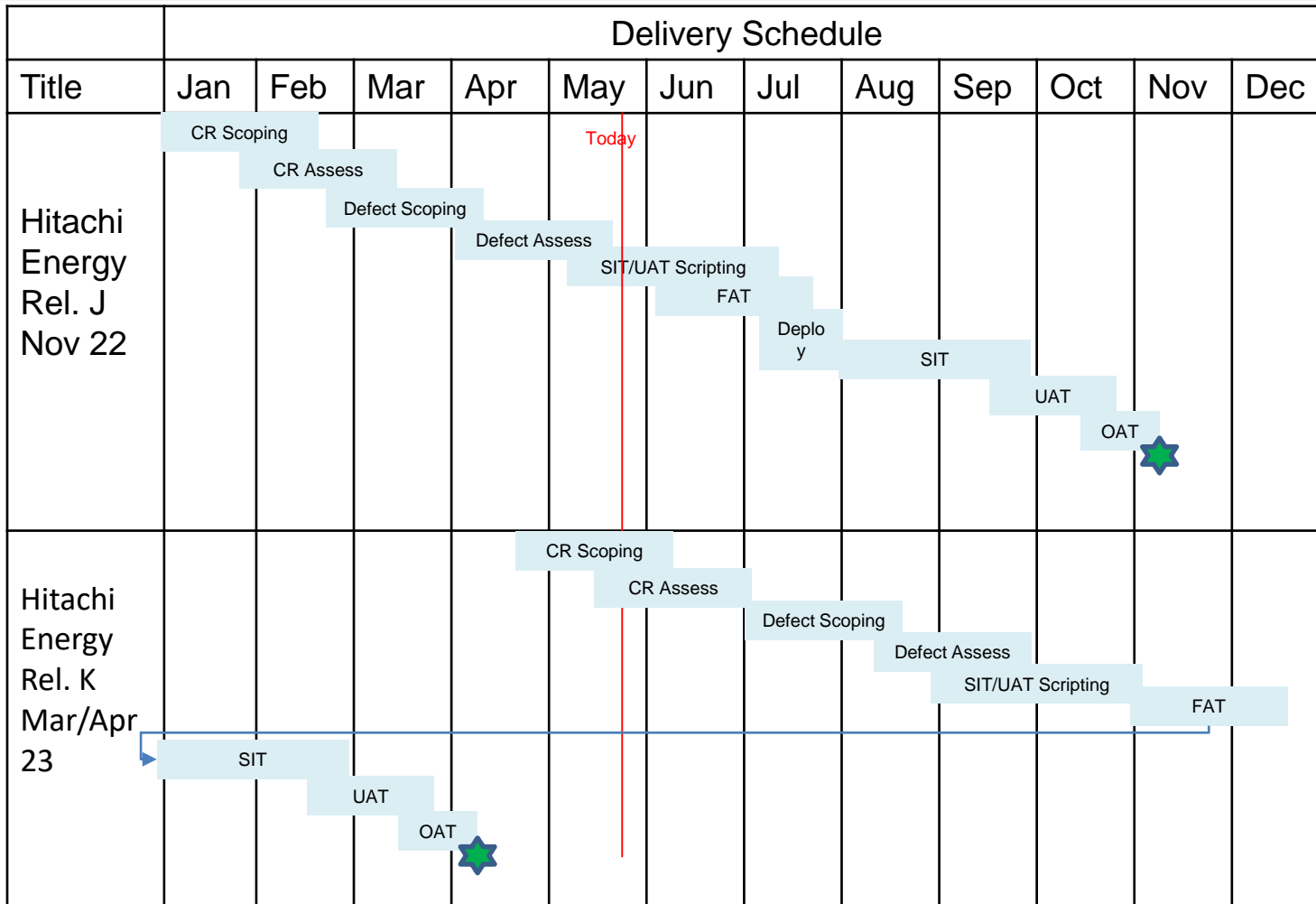
Release I deployed successfully on May 17

Release J schedule

- FAT Testing: June
- HLIA published: July
- Integration Testing: July
- Deployment scheduled: early November

Release K scope closing end June

Priority Item Delivery Plan – MMS System Delivery



IE11 End of Life

- Microsoft: “The Internet Explorer (IE) 11 desktop application will end support for Windows 10 semi-annual channel starting June 15, 2022. Customers are encouraged to move to Microsoft Edge with IE mode. IE mode enables backward compatibility and will be supported through at least 2029. Additionally, Microsoft will provide notice one year prior to retiring IE mode.”
 - [Link](#) to Microsoft IE11 Lifecycle page
- Hitachi Energy have successfully tested the current Release I MPI with Microsoft Edge in IE mode.
 - We are updating the I-SEM CCQT [document](#) to indicate the supported browser is Microsoft Edge with IE mode
 - We will continue to work with Hitachi Energy on the roadmap for MPI to migrate to full native browser compatibility (i.e. Microsoft Edge)
 - Participants are requested to use Microsoft Edge with IE mode from today.
 - Please liaise with your IT Team for further details on how your organisation supports Microsoft Edge with IE mode.

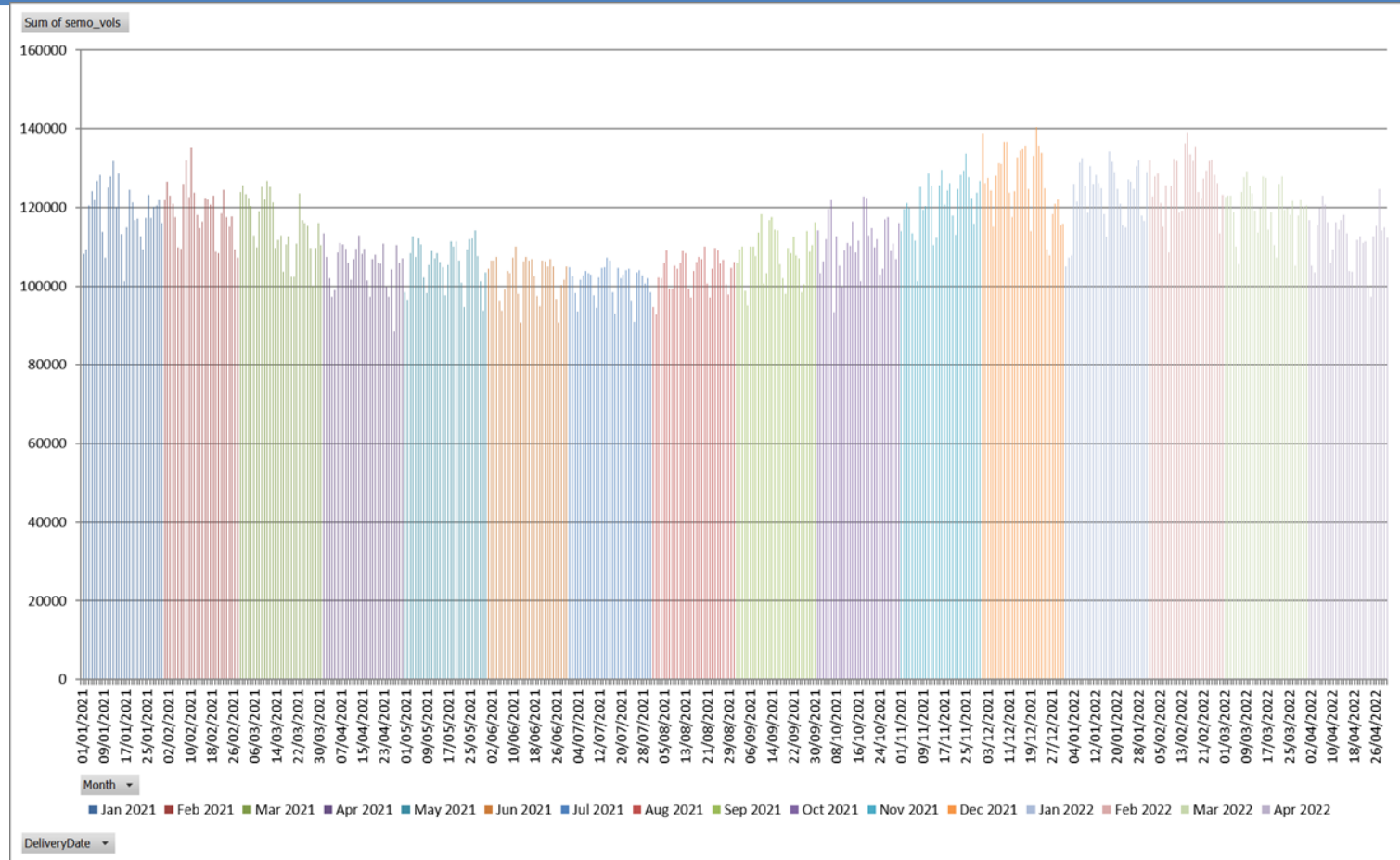
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Ex-Ante Markets

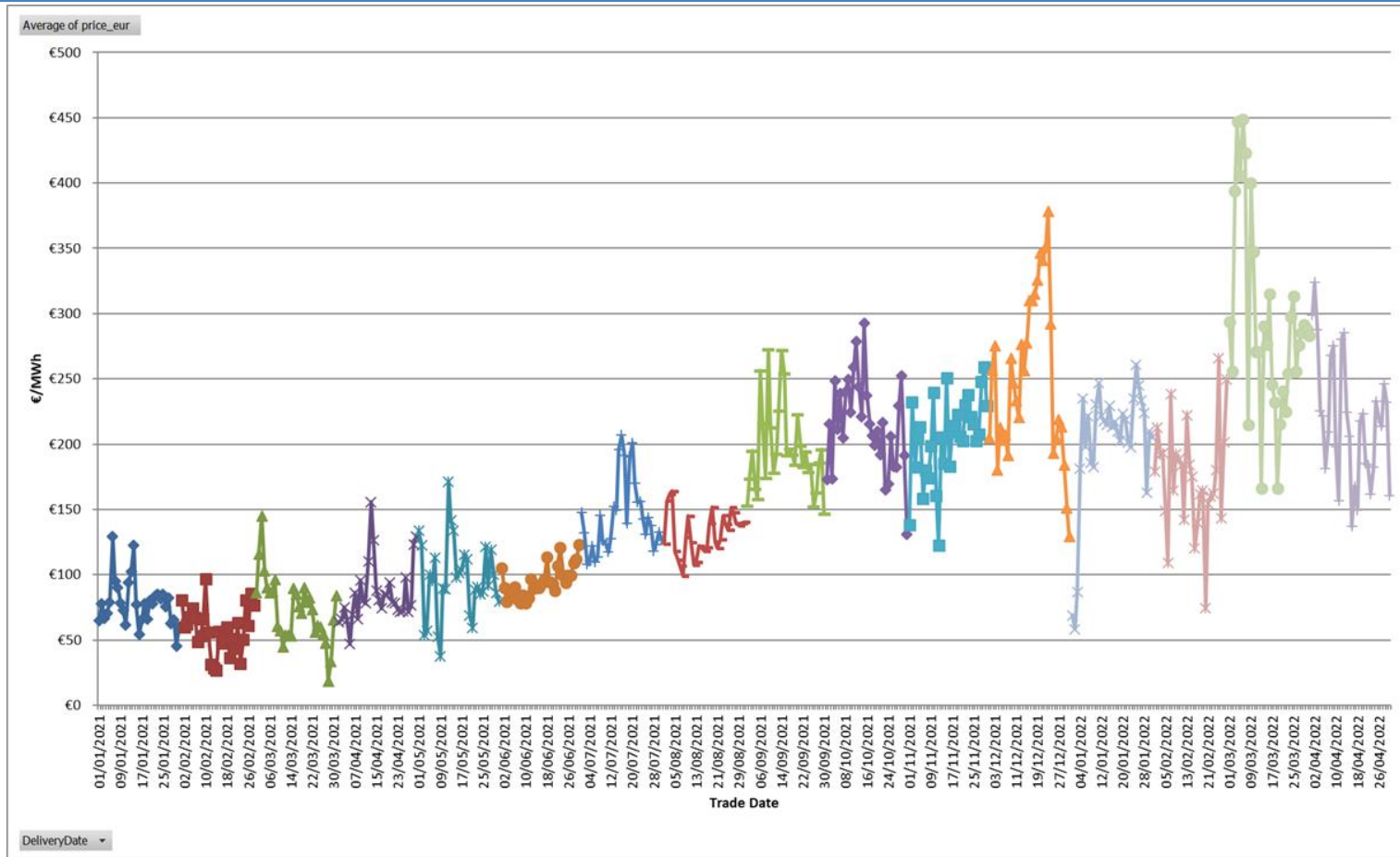
- Ex-Ante Volumes
- Ex-Ante Prices
- Wholesale Electricity Price Trends

Ex-Ante Volumes - DAM



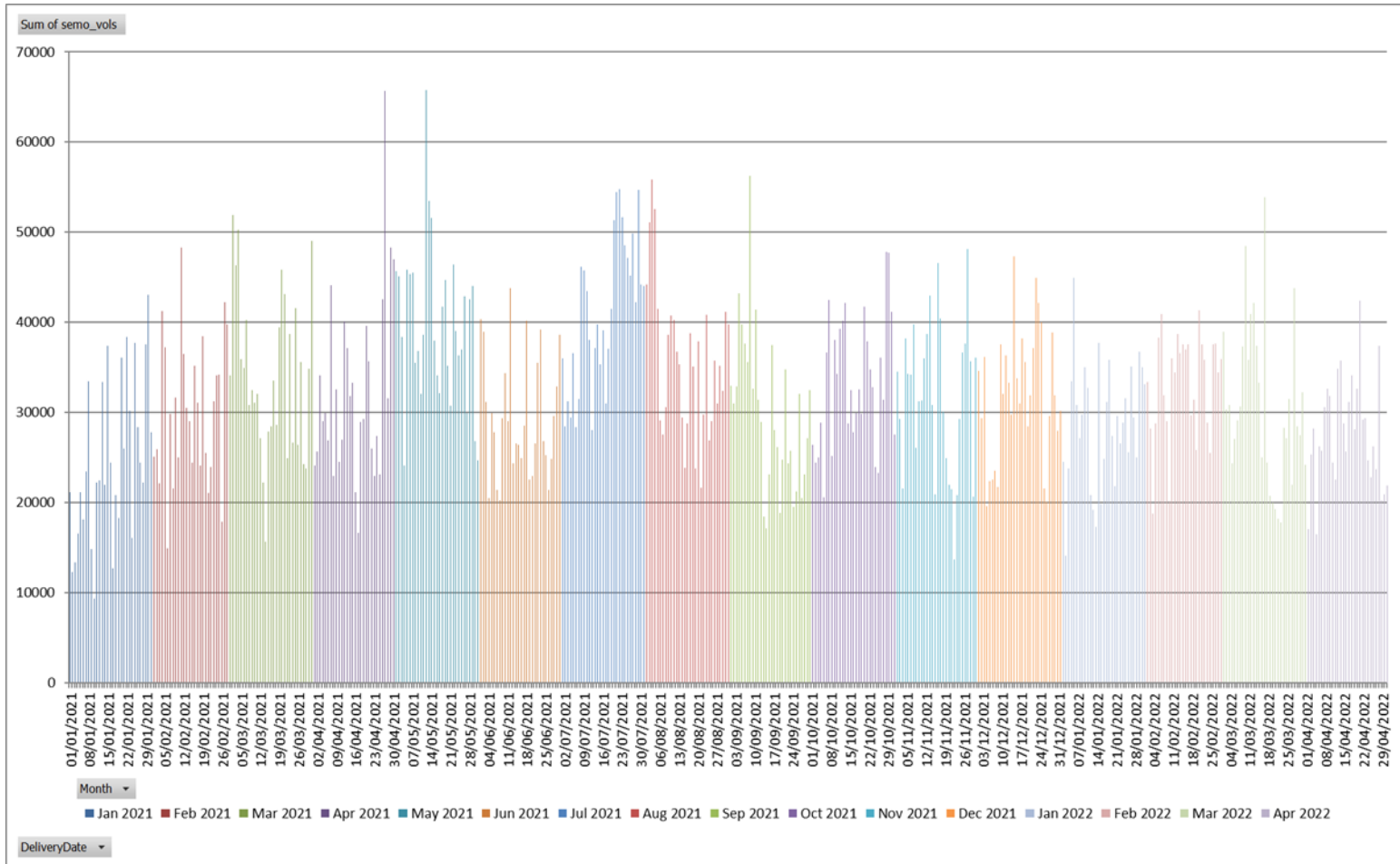
- The traded volumes in DAM reduced slightly due to seasonality changes visible as we have moved further into the Spring.

Ex-Ante Prices – DAM



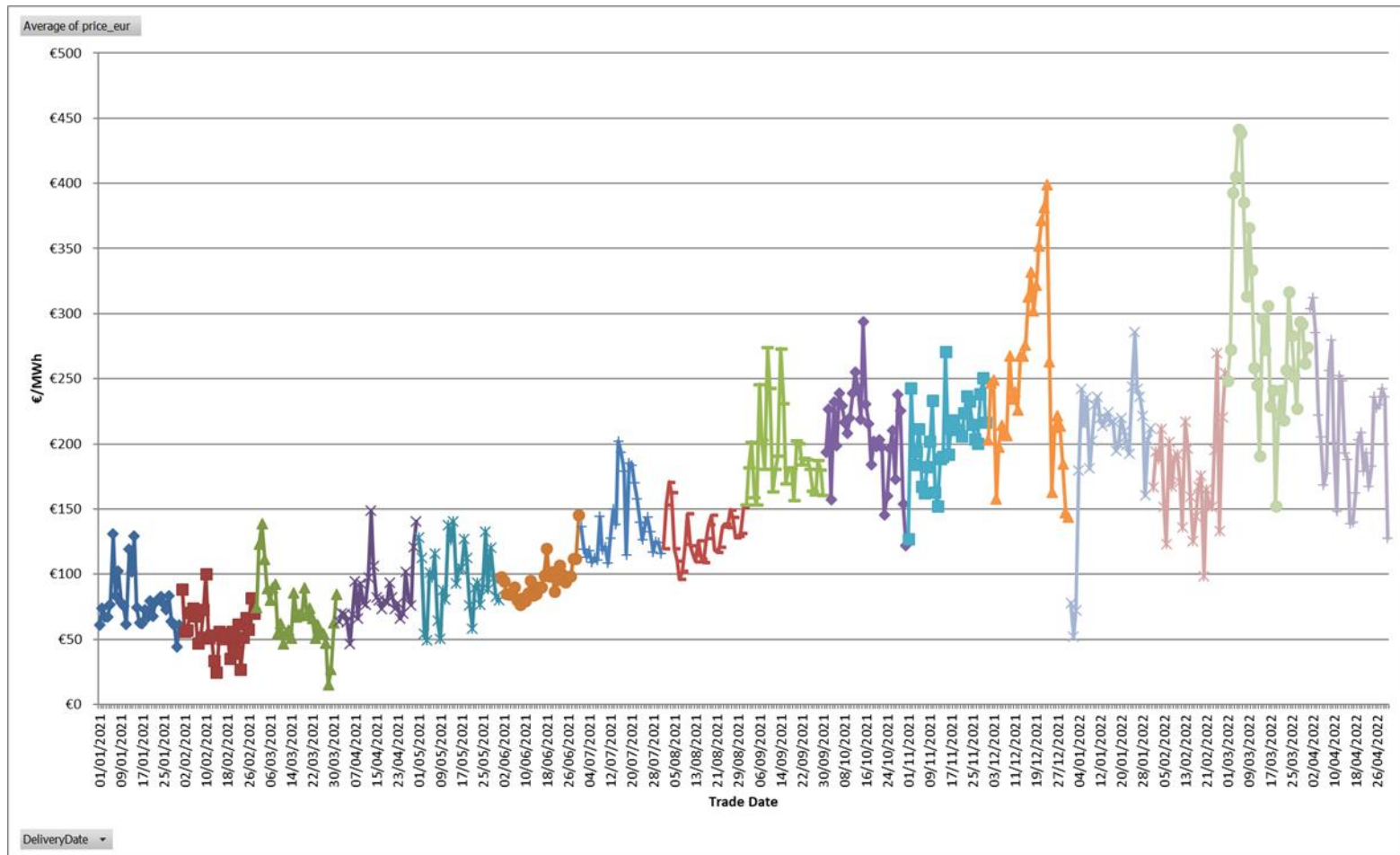
- The DA market prices remain susceptible to the volatility of the gas price, however, high prices witnessed in the opening days of March stabilised in the second half of the month and across April.
- Dam average price for April was €219.

Ex-Ante Volumes – IDA1



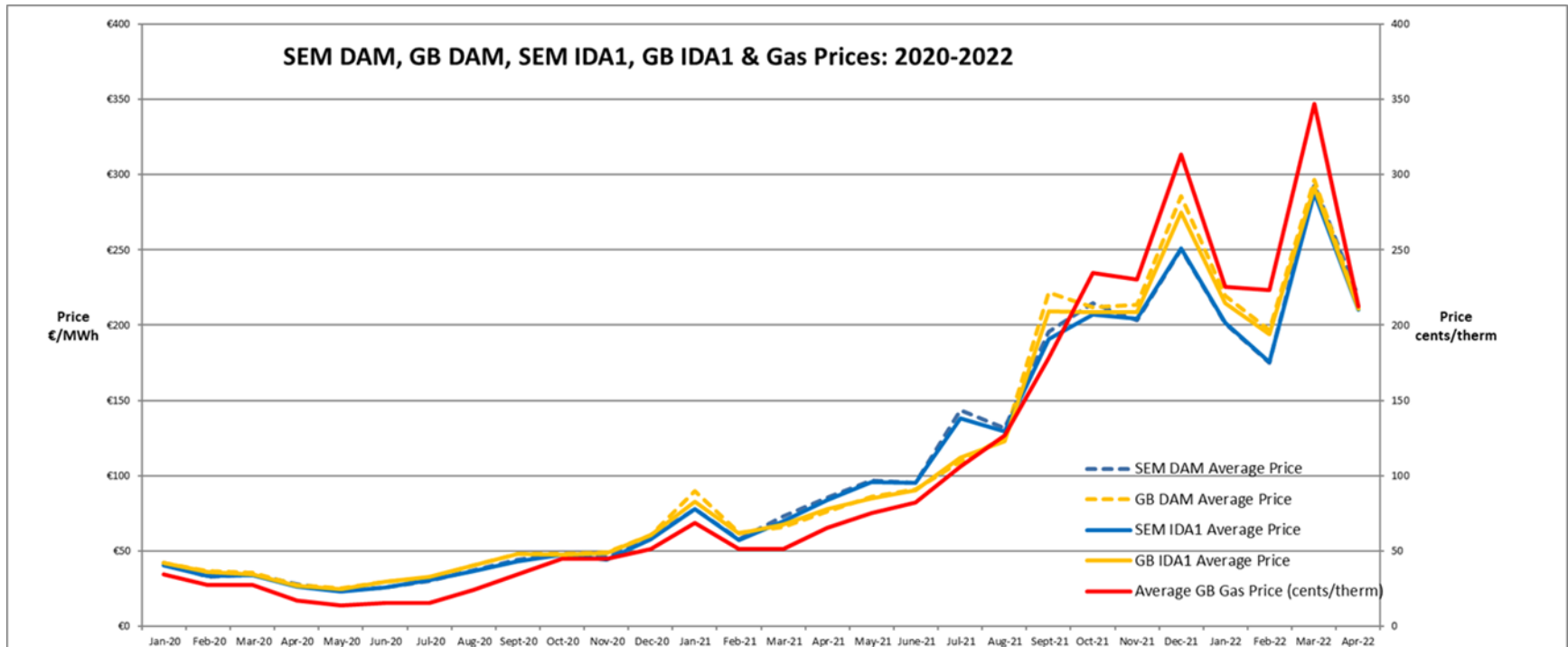
- Traded volumes in IDA1 sustained and are in line with the April 21 volumes.

Ex-Ante Prices – IDA1



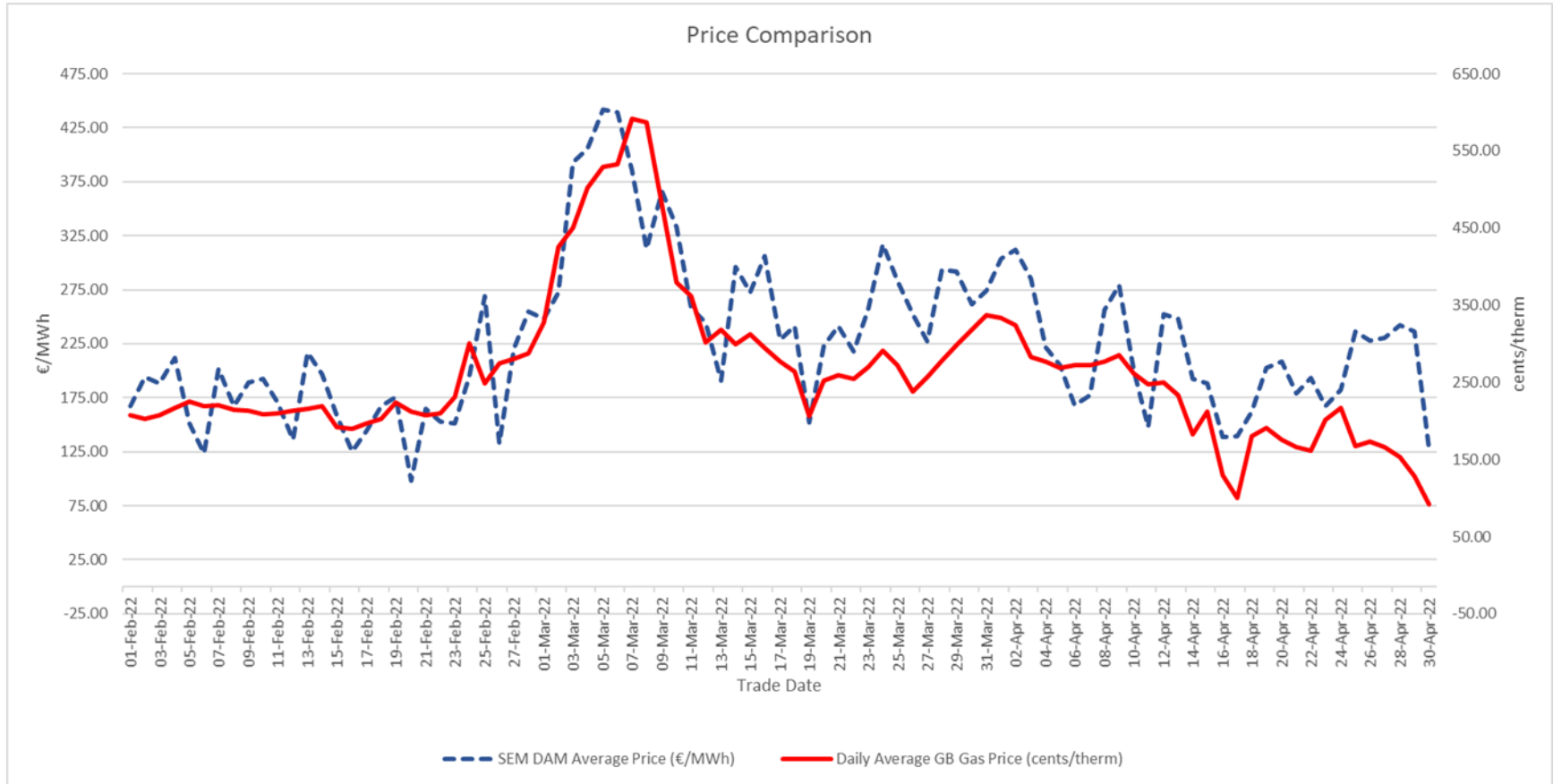
- The IDA1 prices show similar trends to DAM prices
- IDA1 average price for April was €210.

Wholesale Electricity Price Trends



- DAM and IDA1 prices in SEM, and separately DAM and IDA1 prices in GB continued to correlate well on average.
- SEM prices were on average higher in the DAM and lower in IDA1 than GB prices in each respective market.
- Average gas prices have reduced to levels not seen since Sept 21. Largely driven by increases to gas supply levels and some reduction in demand due to seasonality changes since we entered April 22.

Wholesale Electricity Price Trends



- Daily average gas prices and the SEM DAM average price show similar correlation as the monthly average prices shown on the previous slide.

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ETS Releases

Version	Content	Client	Impact	Timeline*
V3.6.2	<ul style="list-style-type: none">Finalization of scoping in progressScalable Complex Orders		API and SCO Product inclusion	Q4 2022
V3.7	<ul style="list-style-type: none">TBD			TBD

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

ETS Maintenance Windows

Date & Time	Impact	Reason	Communication
07/06/2022	Maintenance	CORE updates but not relevant to SEMOpx (we will only mention maintenance)	OMM message (email sent a week in advance and on the same morning)
14/06/2022	Maintenance	Monthly Maintenance / New connection settings for client users	OMM message (email sent a week in advance and on the same morning)
21/06/2022 TBC	Maintenance	API security updates (TLS & Cipher suite)	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
V6.13	Release notes / Impact to be sent.	No information yet	TBC

M7 Maintenance Windows

Date & time	Impact	Reason	Communication
14/06/2022 TBC	Maintenance		M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
12/07/2022 TBC	Maintenance		M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/08/2022 TBC	Maintenance		M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
13/09/2022 TBC	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.

Scalable Complex Order Project

Recap of SCO Member Meetings

5 th Monthly Member Meeting (Introduction to ETS & API changes)	4 th February
6 th Monthly Member Meeting (Outline Simulation Phase approach)	8 th April
7 th Monthly Member Meeting (Submission/Retrieval Training Session & Trial outline)	13 th May

- Completion of both the SCO Conversion and System Design phases of the project, with the initiation of the Trial Simulation, the go-live of the project remains targeted for November 2022.
 - The Trial phase will run for 4 months (June – September), 2 supported auctions per week, with a freeze period in July.
- (If you have any queries regarding the recent monthly meetings, the upcoming Trial Simulation or general queries on the project, please provide notification regarding both instances, to membertest@semopx.com).

Scalable Complex Order Project

- SIMU2* environment access available on **1st June 2022** (first auction day)
- First SCO Participant Kick-off Call from 9:30-10:00am on **1st June 2022**
- Week 1 Runsheet will be published on 30th May 2022
- First auction trial day on the **7th June 2022** (DAM, IDA1, IDA2 & IDA3)
- ETS Packages are available on SEMOpx Website:
 - ✓ [SEMOPx ETS Client 3.6.2 Package](#)
 - ✓ [SEMOPx ETS API 3.6.1 Package](#)
- Updated slides from the [SCO Training Session](#) on 13th May 2022 includes additional screenshots of ETS Client and API XML file changes

*Link to information on new OS requirements, ETS Client 3.6.2 and API 3.6.1 [here](#).

30 Min MTU Project

Background

Article 8 of the Clean Energy Package (CEP) outlined harmonization of Market Time Unit (MTU) & Imbalance Settlement Period (ISP) coming into effect on 01/01/21

Article 8.2 – PT's shall have the opportunity to trade energy in same time resolution as ISP (in both DAM and IDA markets)

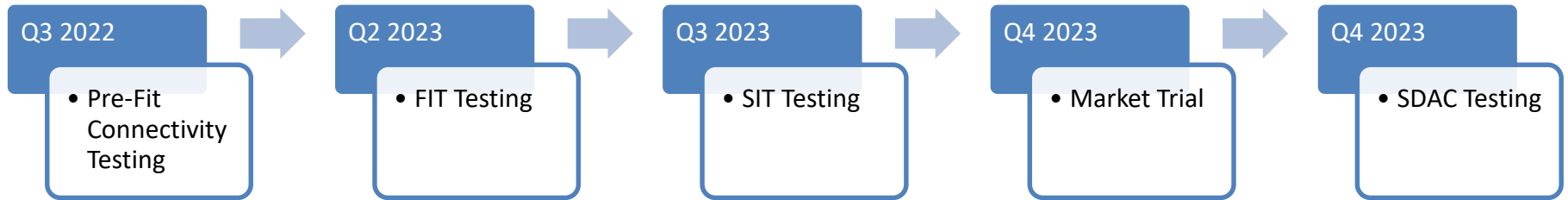
All EU regions moving to 15 min MTU, with SEMOpx being the exception, as SEM Committee granted exemption (from moving to 15 min ISP) remaining at 30 min ISP

What this means for SEMOpx:

- The total number of Trading Periods in the Day-Ahead Auction will increase from 24 to 48, with the time resolution moving from 60 min to 30 min MTU.
- Changes to the ETS system and API, reflected in Market Results files etc
- Go-Live Q1 2024
- Alignment with SEM-GB IDA's (30min TR)
- 30min MTU in place reconnection to SDAC via Celtic (2026), allowing for cross-border cross-matching

30 Min MTU Project

Project Timeline:



Go-Live Timeline:



General SEMOpx Updates

- Day-Ahead Auction (td 10/5/22) – Partial Decoupling due to OrderBook related reasons
- Intraday Auction 1 (td 14/5/22) – Full Decoupling due to non-receipt of Cross-Zonal Capacities, followed by a Local Auction
- ✓ Process updated and workaround in place to avoid this happening again
- ✓ SEM-GB to find more efficiencies to avoid decoupling triggers

Upcoming Market Changes in Production

- Change in the DAM Partial and Full Decoupling deadlines
 - Full Decoupling (FD1) deadline shift from:
13:00 to **13:20 IST / GMT**
 - Partial Decoupling (PD2) deadline shift from:
11:45 to **12:05 IST / GMT**
 - Change in DAM Full Decoupling Process
 - In the event of a full decoupling in the Day-Ahead Market, it will no longer be possible to re-open order books in order to run a second auction if the results of the first local auction after decoupling exceed predefined price thresholds.
 - [SEMOpX Market Messages and Auction Timings](#) – document will be updated as of 8th June 2022
- Effective on:
8th June 2022
(For Trade Date
9th June 2022)

Upcoming Market Changes in Production

- Connection Settings Updates for ETS Client Users
 - After the ETS maintenance on 14th June 2022, members no longer need to use the **Gateway* address and port** in the connection settings window
- ETS API Upcoming Versions – Old TLS Decommission
- Cipher Suites Decommission

Effective for:
15th June 2022
(first auction day)

- ❖ Connectivity testing on SIMU2** is available on 1st June 2022 to test API Compatibility with the Cipher Suite changes

**The gateway option can still be used when connecting using an IP address or when using a port redirector.*

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Repricing Update

Trading Day	ISP Impacted	Issue	Status	Date Repriced
14/09/2021	14:30 to 16:30	Trade SO Volume did not feed correctly into the calculation of Imbalance Prices.	Updated Prices Published	12/05/2022
31/10/2020	12:00 to 20:00	Incorrect calculation of QBOA for a unit; correct initial conditions not applied.	Open	TBC
05/08/2021	03:30 to 04:00 08:30 to 10:00 11:00 to 11:30 12:00 to 13:30 14:30 to 15:00 15:30 to 16:00	Incorrect Commercial Offer Data applied within Imbalance Pricing for a unit.	Open	TBC
05/11/2021	08:00 to 08:30 10:00 to 11:00 15:30 to 17:00	Incorrect Commercial Offer Data applied within Imbalance Pricing for a unit; Complex COD applied for a number of periods instead of Simple COD. Defect close in Release I.	Open	TBC

- One further date, 14/09/2021 completed since last MOUG.
- Three dates remain open; and we are still actively working on solutions in order to assess the materiality of the impacted periods.

Imbalance Pricing Release Updates

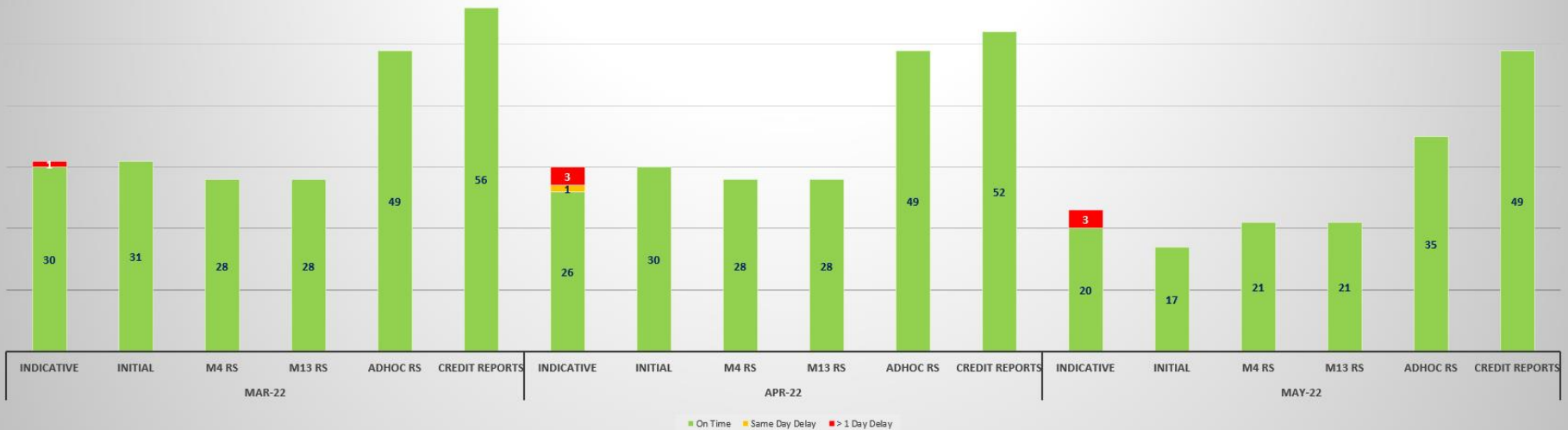
- Mod_01_20 was delivered as part of Release I
 - Change to Imbalance Pricing calculation where there are no energy actions in the same direction as the NIV.
 - Energy actions in the opposite direction to the NIV are no longer able to set PMEAs.
- KIR Item #179136 – Incorrect Application of COD in Imbalance Pricing fixed as part of Release I
 - Issue previously resulted in the system intermittently reverting to Complex COD for impacted units.
- KIR Item #1651837 – Incorrect order profile created for wind units.

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Settlement publications & timelines: Mar 2022 – May 2022 (to date)

Settlements publications: Indicative, Initial, Resettlement (RS) and Credit reports



Mar 2022

- **222** settlement publications on time
- 1 late indicative delay due to MDP Data delay – SONI TSO MDP data (1)
- All issues now resolved

Apr 2022

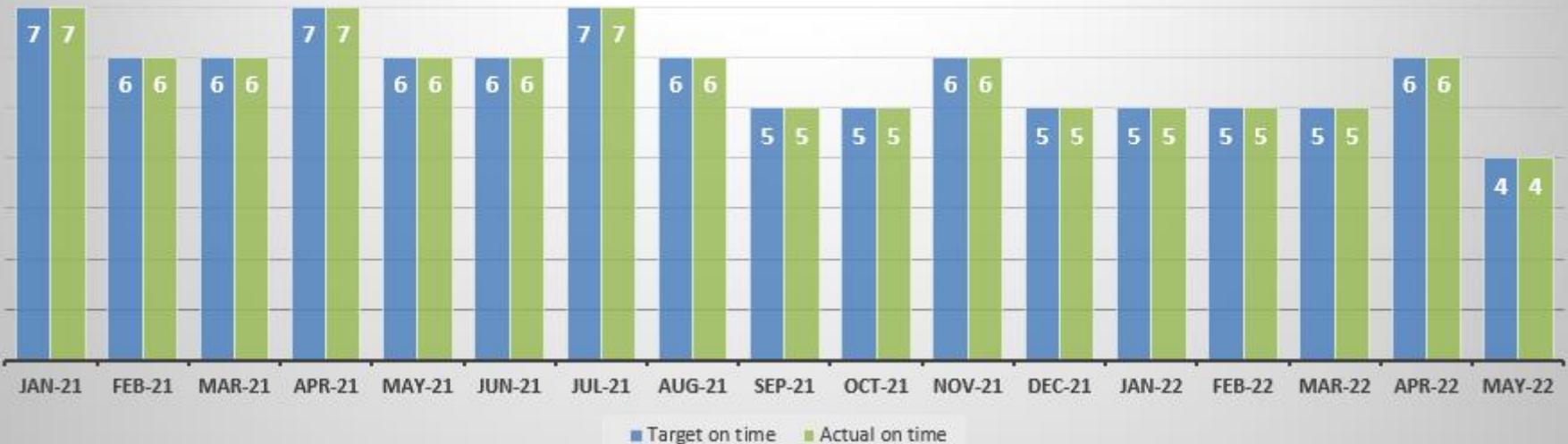
- **213** settlement publications on time
- 4 indicative delays due CIM Load outage impact (1), additional processing overrun time on Monday afternoon indicatives (3)
- All issues now resolved

May 2022

- **171** settlement publications on time
- 3 indicative delays due CIM Load outage impact (1), MDP Data delay – EirGrid TSO MDP data (1), Instruction profiler data issue (1)
- All issues now resolved

Settlement Documents publications & timelines: Jan '2021 – Mar '2022

Settlement Documents : Jan '21 - Mar '22 (BALIMB, Capacity and MO Invoicing)



Settlement Document updates:

- 97 Settlement Documents published on time between Jan 2021 and May 2022 (includes BALIMB, Capacity and MO Invoices)
- Processing issues reported to the market in relation to **BALIMB** and Invoicing;
 - **BALIMB & CRM** : Due to a process event timing error identified on the morning of Monday May 9th, Settlement Documents had a Fx rate of 0.8558 instead of 0.8546. No resettlement will be carried out due to the low level of materiality of the issue. A market message was issued on the 12/05/2022.

Ad hoc resettlement: Status update May 2022

Scheduled Ad hoc resettlement completed to date – 1st iteration

Calendar Month	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22
M+4 Month (s)	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22
M+13 Month	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21
Ad hoc Iteration 1:	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19

Scheduled Ad hoc resettlement completed to date – 2nd iteration

Calendar Month	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23
M+4 Month (s)	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
M+13 Month	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Adhoc Iteration 1:	Sep-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21
Adhoc Iteration 2:	Oct-18 - Jan-19		Feb-19	Mar-19	Apr-19	May-19	Jun-19 to Sep-19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Ad hoc summary : Mar-21 to May-22

- Ad hoc iteration **1** resettlement is up to the 14/12/2019 . **63** weeks / billing periods processed and published to date.
- Ad hoc iteration **2** resettlement is up to the 23/02/2019 . **12** weeks / billing periods processed and published to date
- 2018** Ad hoc resettlement is now closed out
- 12 weeks** of Adhoc processed in Q3 to date (Apr-June 2022) to meet **KPI** target of 18 weeks over a 12-week period

Settlement Documents to issue, Friday 27th 2022

Settlement Document :
INITIAL BALIMB – (15/05/22-21/05/22) – Week 20 2022
M+4 BALIMB – (23/01/22-29/01/22) – Week 04 2022
M+13 BALIMB – (25/04/21-01/05/21) – Week 17 2021
Ad-Hoc BALIMB – (10/02/19-16/02/19) – Week 6 2019 (2 nd Iteration)
Ad-Hoc BALIMB – (24/02/19-02/03/19) – Week 8 2019 (2 nd Iteration)

<https://www.sem-o.com/market-data/settlement-calendar/>

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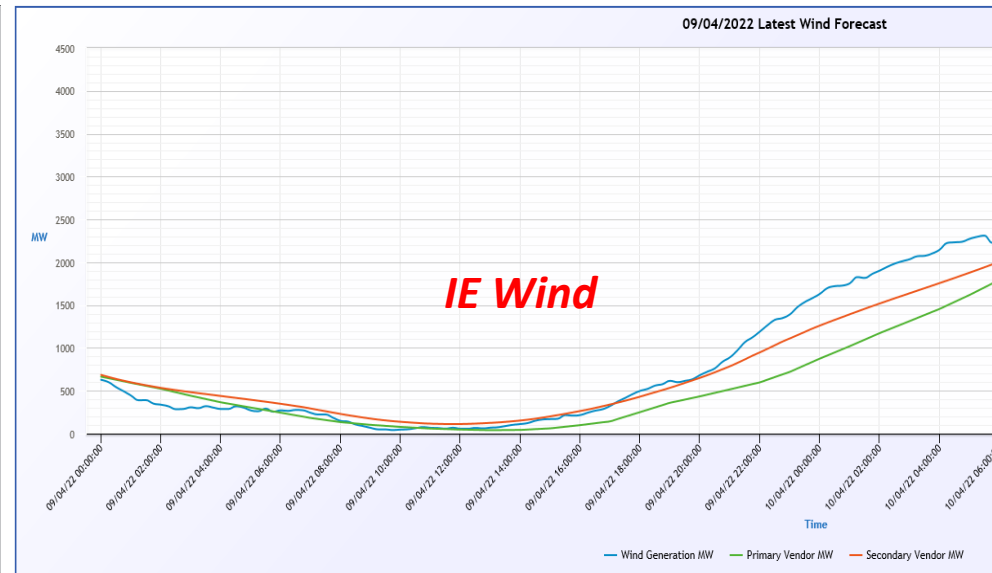
IE System Alert - Saturday 9th April 2022

Pre-Event:

- EWIC, MP2, IW1, AA4, LE2 **unavailable** (planned)
- GI4, WG1, MP1, TB3, TB4, TB1, TB2 **unavailable** (forced)
- ~2.2 GW of ~6.2 GW conventional generation **unavailable** (~35%)
- Extremely low wind generation: sub 200 MW out of ~4.2 GW installed

Event & Follow Up:

- Unit HN2 (400 MW) tripped @ 06:00
- System Alert issued @ 08:00
- NI -> IE power flows maximised
- All IE peaking units & available DSUs called
- Unit HN2 resynchronises @ 12:46 (second attempt)
- System Alert lifted @ 18:30



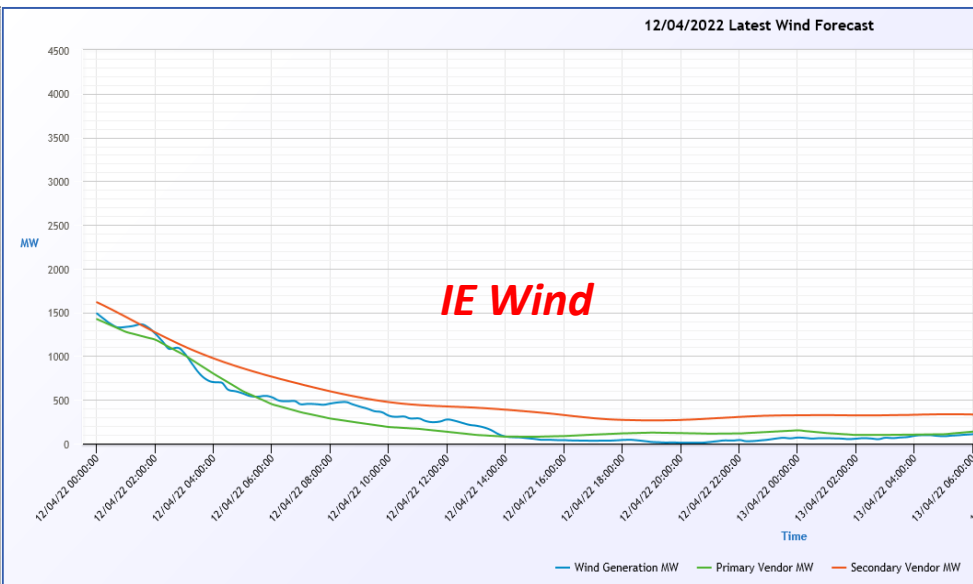
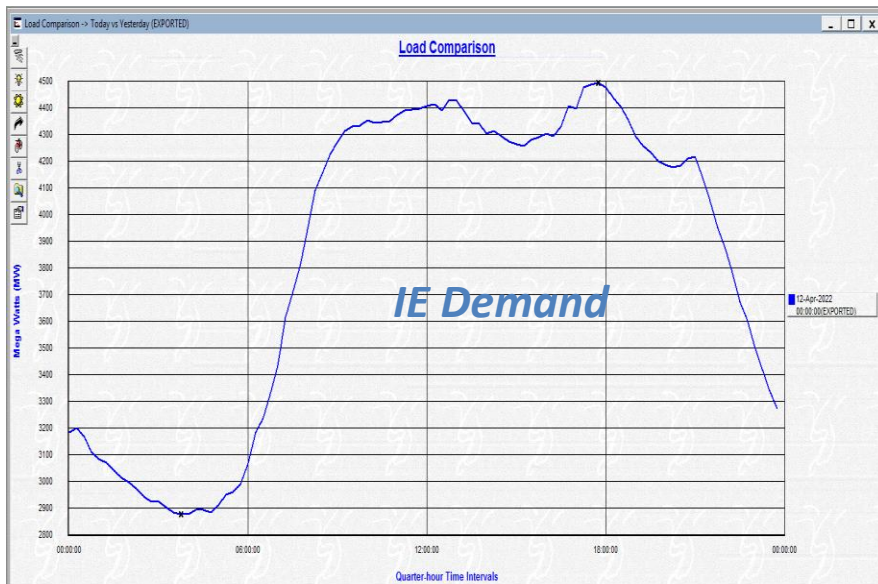
IE System Alert - Tuesday 12th April 2022

Pre-Event:

- ~2 GW of ~6.2 GW conventional generation **unavailable** (~33%)
- EWIC **unavailable** (planned)
- Extremely low wind generation: sub 100 MW out of ~4.2 GW installed
- Projected IE lunchtime peak of 4.45 GW, evening peak of 4.5 GW

Event & Follow Up:

- Unit TB3 (241 MW) failed to synchronise @ 02:30
- Unit TYC (384 MW) forces off @ 05:48
- System Alert issued @ 08:00
- Potential to become **System Emergency** over evening peak



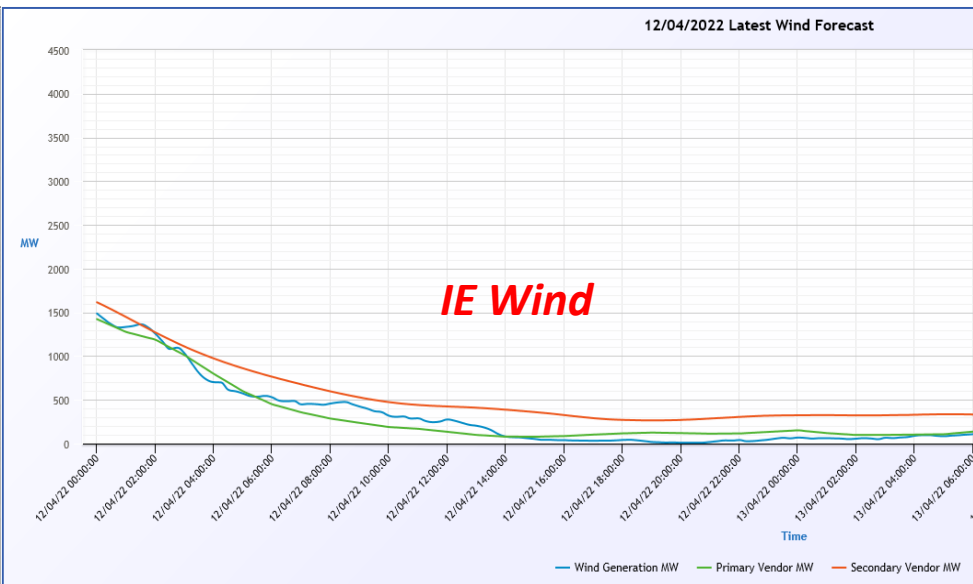
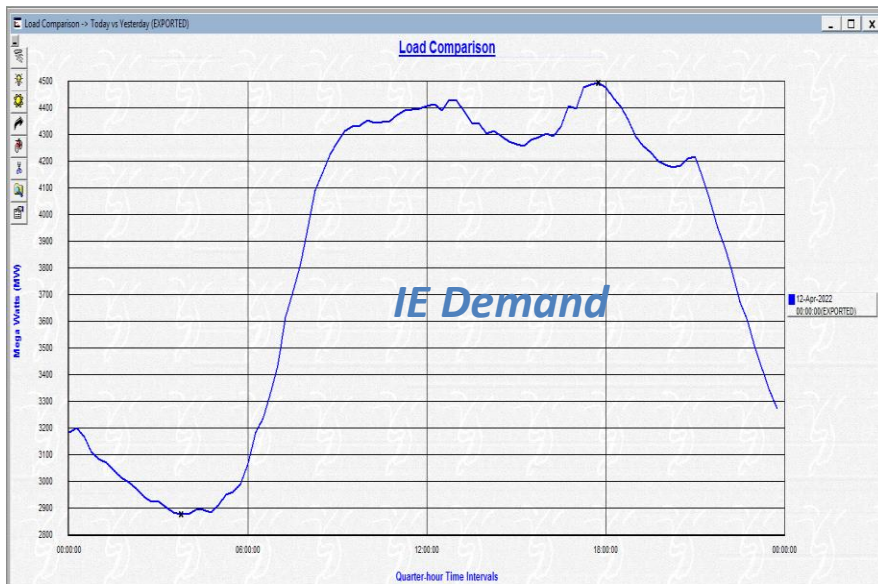
IE System Alert - Tuesday 12th April 2022

Pre-Event:

- ~2 GW of ~6.2 GW conventional generation **unavailable** (~33%)
- EWIC **unavailable** (planned)
- Extremely low wind generation: sub 100 MW out of ~4.2 GW installed
- Projected IE lunchtime peak of 4.45 GW, evening peak of 4.5 GW

Event & Follow Up:

- NI -> IE power flows maximised
- All IE peaking units called
- Available DSUs called across lunchtime
- Unit TYC synchronises @ 11:17
- Unit TB3 synchronises @ 12:16
- System Alert lifted @ 15:00



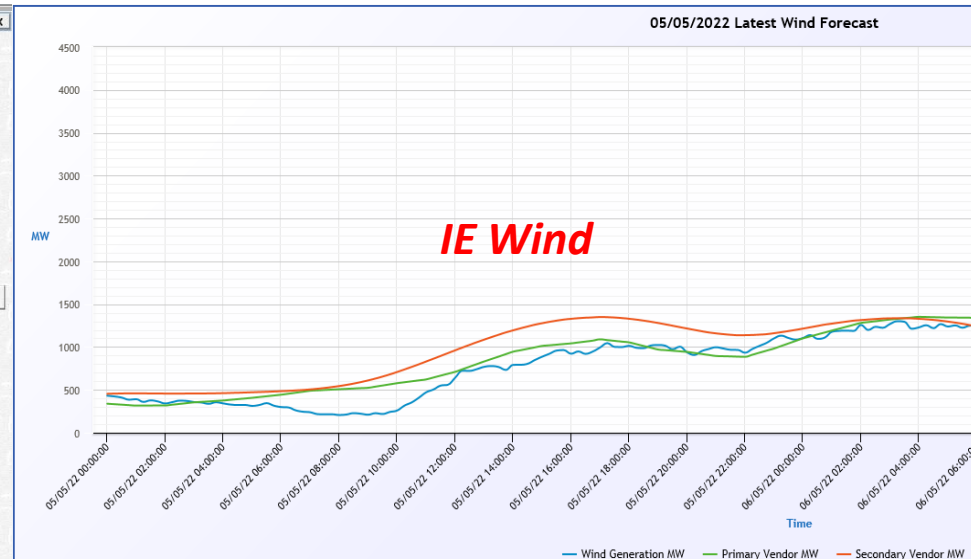
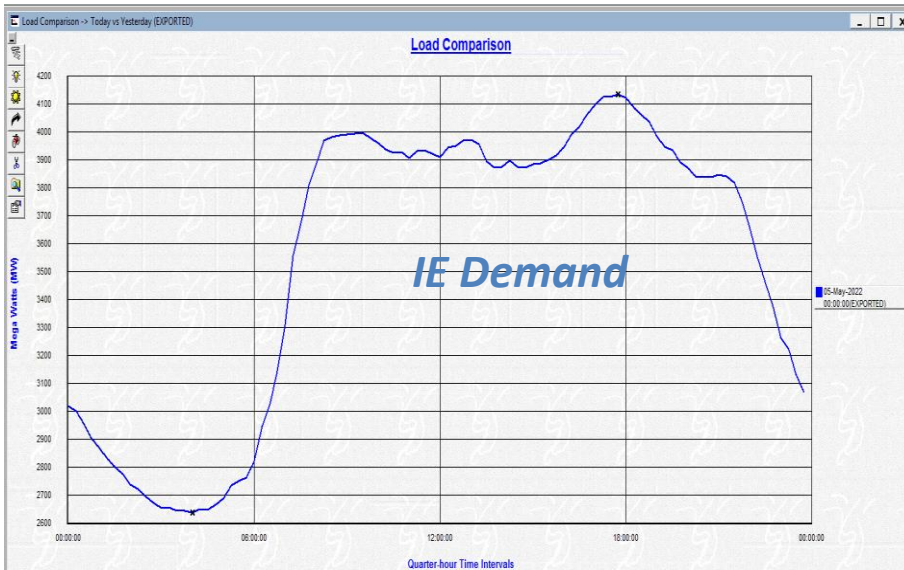
IE System Alert – Thursday 5th May 2022

Pre-Event:

- ~2 GW of ~6.2 GW conventional generation **unavailable** (~33%)
- EWIC **unavailable** (planned)
- Limited support available from NI
- Very low wind generation: sub 300 MW out of ~4.2 GW installed

Event & Follow Up:

- Actual IE wind generation @ 35 % of forecast from 07:00 (~400 MW shortfall)
- System Alert issued @ 08:15
- All IE peaking units & available DSUs called for morning load rise
- IE wind generation improves across morning
- System Alert lifted @ 10:55



Agenda

Item	Presenter
Welcome	Anne Fitzgerald
SEMO CapEx Update	Brian Sherwin/ Mark Hogan
Release Program Update	Mark Hogan
Ex-Ante Markets	David Beirne
M7, ETS Update; DAM 30min Trading Period; Decoupling	Michael Atcheson
Repricing Update	Michael Atcheson
Settlements Update	Sean O'Rourke
SO Update	Charlie McGee
Market Modifications Update	Sandra Linnane
Market Interface Update	Marion McConnon
Interconnector Brexit Update	Fergal McParland
Q&A	

Market Modifications Update

- Balancing Market
 - Modifications Committee
 - Bimonthly Committee Meetings
 - Voting structure
 - 12 Modification Proposals ongoing – 4 raised in 2022
 - 7 RA Decision Approved – T&SC v26.0 code update
- Capacity Market
 - Capacity Market Modifications Workshops followed by RA Consultation
 - Bimonthly Meetings
 - 12 Modification Proposals ongoing - 9 raised in 2022
 - 2 RA Decision Approved – CMC Code Update 7.0
 - 6 RA Consultation commencing shortly/3 awaiting RA Decision pending RA Consultation
- SEMOpx Market
 - Exchange Committee
 - 2/4 Committee Meetings annually
 - Voting Structure
 - 4`Modification Proposals ongoing - 4 raised in 2022
 - 2 awaiting SEMOpx Decision

Proposal Lifecycle

- Proposal raised 2/3 weeks in advance
- Proposal discussed at Committee Meetings/Workshops
- Reports issued to RAs for RA Decision
- Timeline can take approx. 6/8 months from raising Proposal to Proposal being effective.

Modification Committees

- Balancing Market
 - [Modifications Committee](#)
- SEMOpx Market
 - [Exchange Committee](#)

Proposals Information Provision

- List of all ongoing Modification Proposals with status updated and all relevant material, eg, Proposal, FRR, RA Decision available in all Markets –
 - [Balancing Market](#)
 - [Capacity Market](#)
 - [SEMOpX Market](#)

Modification Queries

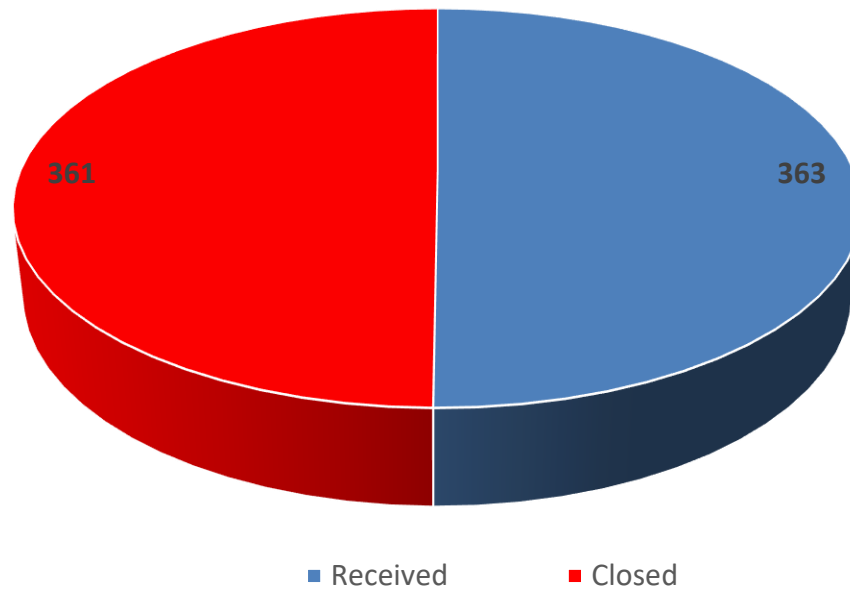
- balancingmodifications@sem-o.com
- CapacityModifications@sem-o.com
- ExchangeCommittee@semopx.com

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General Queries 25th March - 23rd May 2022

General Queries



Formal Queries and Disputes – 25th March - 23rd May 2022

Formal Queries:

40 formal queries were received, of which 21 are now completed (12 upheld and 9 was not upheld) and 19 are ongoing.

Disputes:

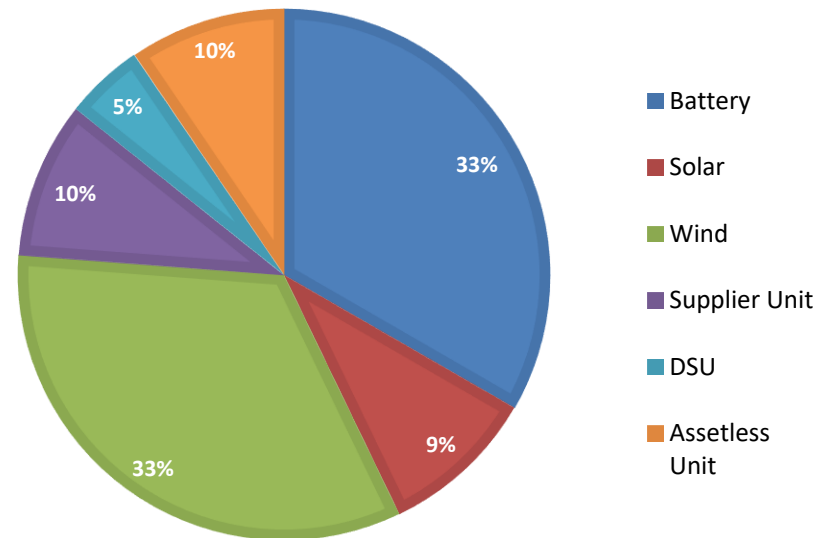
One new Dispute (Settlement Dispute) was raised in this period.

Balancing Market Registration

January – May 2022

- 5 new Parties joined the market
- 21 unit registrations
- 9 unit de-registrations

Breakdown by Unit Type



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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
- Capacity Market: CapacityMarket@sem-o.com

Thank you for your attendance.