

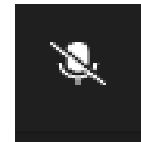
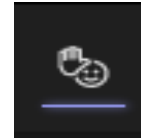
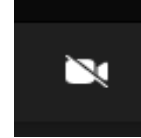
Market Operator User Group

14th December 2023



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

Anne Fitzgerald



Agenda

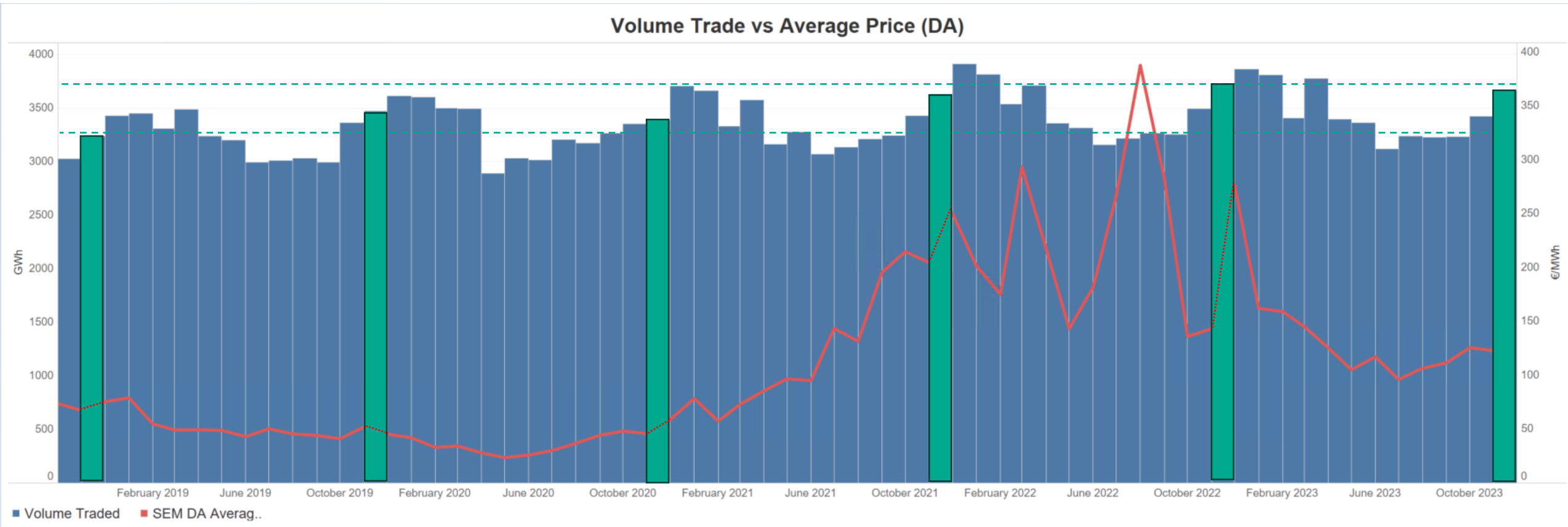
Item	Presenter
Welcome	Anne Fitzgerald
Ex-Ante Markets	Joaquin Iniguez de Gante
SEMOpX Update/ SEMOpX Future Projects	Michael Atcheson Nigel Thomson
Settlements Update	Sean O'Rourke
System Operations Update	Charlie McGee/Sean O'Hara
Market Interface Update	Rosaleen Fanning

Ex-Ante Markets

Joaquin Iniguez de Gante



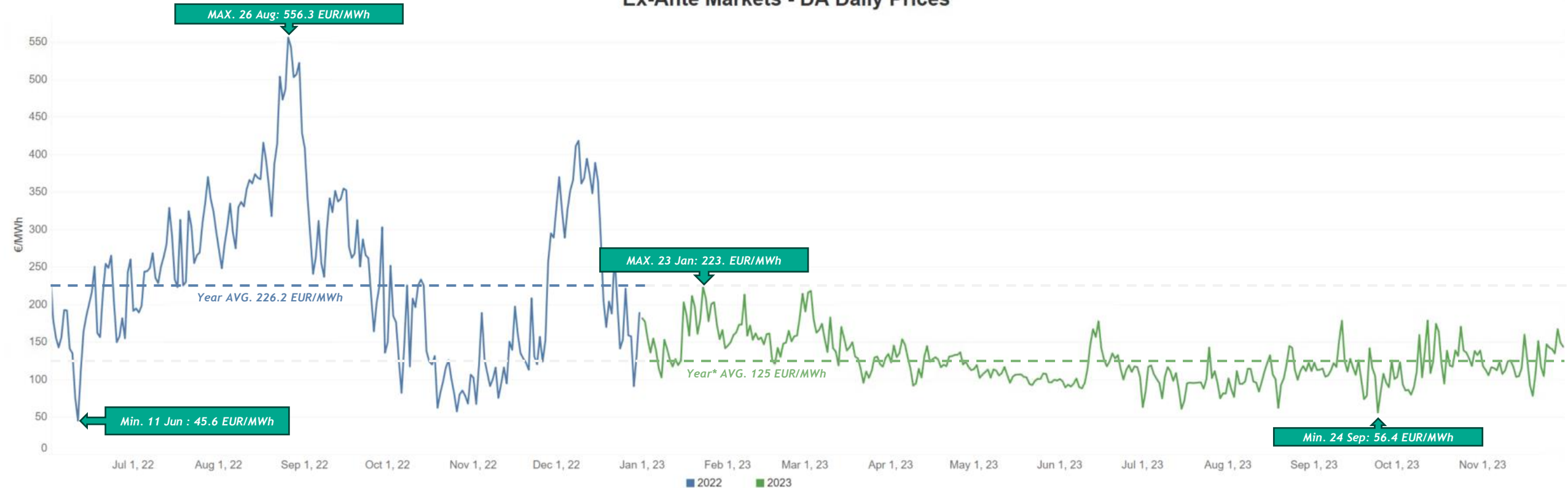
Ex-Ante Markets



- Volumes in the DAM remain at historical trend levels.
- An "expected" increase is observed within the month of November due to the onset of winter.
- Throughout 2023, DAM prices have decreased by an average of 50% from the previous year, with a significant decrease in price volatility between months.

Ex-Ante Markets

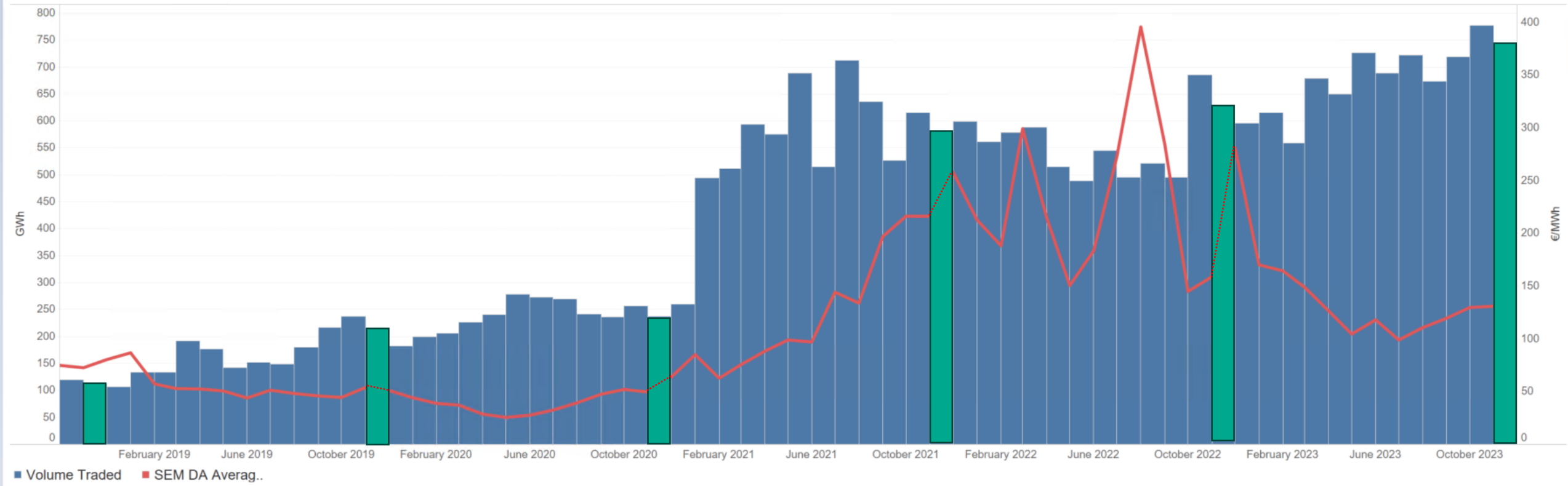
Ex-Ante Markets - DA Daily Prices



- DAM Prices along 2023 have lied within the range of 223 to 56.4 EUR/MWh (average day) giving an annual average of 125 EUR/MWh which is 50% less than that seen in 2022.

Ex-Ante Markets

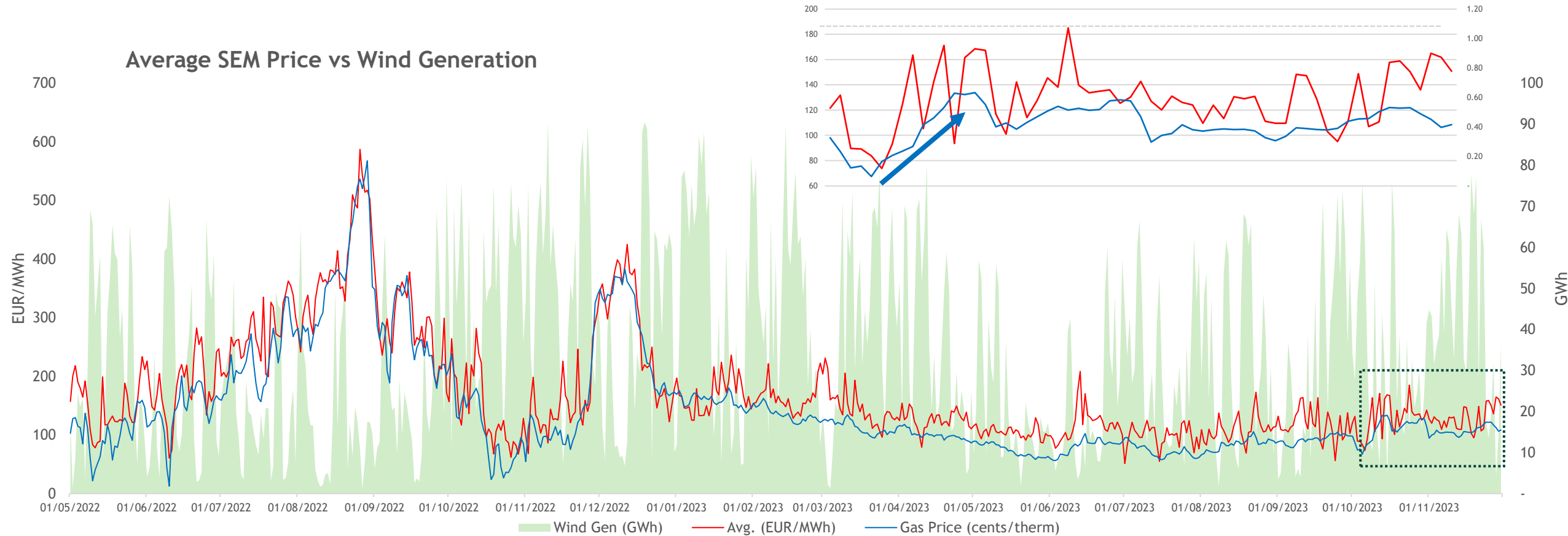
Volume Trade vs Average Price (DA)



- The price evolution closely follows the DAM pattern.
- Traded volume continues to be influenced by interconnection behavior.
- The 15% decrease in volume from October to November can be related to the 30% decrease in GB imports.

Ex-Ante Markets

Average SEM Price vs Wind Generation



- In October gas prices reacted upward to the conflicts in the Middle East.
- Prices closely follow gas prices; however, good wind power generation absorbs the fluctuations in the price of this fuel.

Question & Answer Section



SEMOpX Update

Michael Atcheson



ETS Releases

Version	Content	Client	Impact	Timeline*
V3.8	TBC	TBC	TBC	TBC

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



ETS Maintenance Windows

Date & Time	Impact	Reason	Communication
12/12/2023	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
09/01/2024	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
13/02/2024	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
12/03/2024	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
V6.16		Performance Boost	Q1 2024 (Date TBC)



M7 Maintenance Windows

Date & time	Impact	Reason	Communication
12/12/2023	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/01/2024	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
13/02/2024	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
12/03/2024	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 Market Update

Issue occurred during DAM Auction, for trade date 24th November, which led to a Floor Price (-€500) being generated in the Finland Region / EMCO-Nord Pool (Finland NEMO)

- This was caused by an incorrect sell order in EMCO Trading system for more than 5000 MW for each hour of the day.
- The outcome of this was that for 12 hours the price was at -500 and Finland was exporting energy towards Sweden and the Baltic countries.
- No impact to publication of SDAC results, with all results published at 12:05 GMT
- Investigation into risk mitigation measures for SEMOpX members

Reminder for SEMOpX members:

- Review all internal processes regarding the submission and approval of prices and volumes submitted to ETS
- Review the ETS functionality of average volume limit notification
- HMMCP Price trigger observation period until 23/12/23



SEMOpX Future Projects

Nigel Thomson



SEMOpX Modifications

LIVE

SPX 07 22 Increase in SDAC Second Auction Maximum Price Threshold

- New methodology for increasing the SDAC max price threshold
- Live from July 2023 in SEM-GB IDAs and 1st September 2023 in SEM IDA3 Local auction.

LIVE

SPX 01 23 Member Alternative Position

- To alleviate risk of not achieving a quorum
- Provide for an alternative to attend where Exchange Members cannot attend.
- Effective date 26th July 2023

LIVE

SPX 02 23 Recommendation Reporting Timelines

- To allow proactive engagement of Modification Proposals.
- Proposal issuing not limited to meeting schedule.
- Effective date – 6th June 2023

LIVE

SPX 03 23 HMMCP Methodology for Intraday Auctions

- Clarity about when and how max/min clearing price changes are applied in SEM-GB
- Live from 10th July 2023 in SEM-GB IDAs and 1st September 2023 for SEM IDA3.

LIVE

SPX 04 23 Increase in the Minimum Price Threshold for the Second Auction Trigger

- Change in minimum price threshold to trigger 2nd auction.
- Live 15th June 2023.

Ready for
Go-Live

SPX 05 23 Greenlink Interconnector Implementation

- Minor update to the rules to accommodate Greenlink
- Active from Greenlink market coupling go-live ~ Sept 2024.

Full details available from [SEMOpX Modifications website](#)

NEMO Consultation: Removal of the Second Auction Process

Background

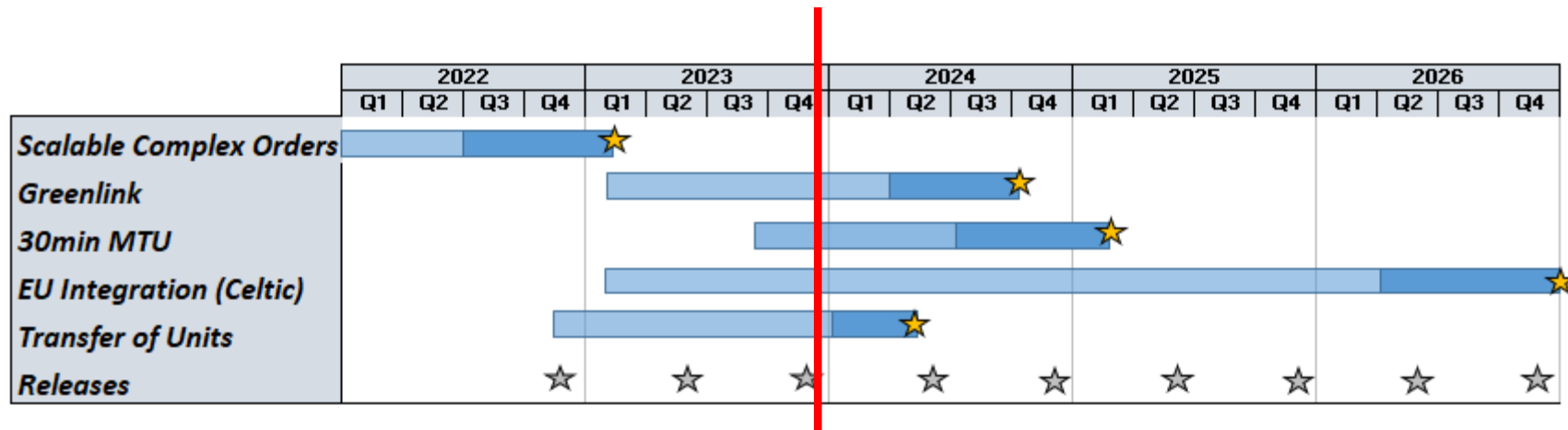
- In March, the NEMO committee began looking at ways to support the longer run time needed for the market coupling auctions due to the introduction of 15 Min MTU functionality from 2025.
- One of the changes being considered is the removal of the second auction process.
- The second auction process is an opportunity for members to resubmit orders to remove high prices
- However, price events occurring recently (3/4, 18/4*, 26/5, 27/5, 28/5 and 1/7) which resulted in the second auction process being triggered showed limited improvement in prices as a result of the second auction. In some cases the second auction exacerbated high prices.
- Based on the recent examples as well as the increased risk of delay (90-120min) and potential decoupling that the second auction process causes the NEMO Committee have proposed to remove the second auction process based on the timeline below.
- The change is purely procedural and would not impact on members systems.

Decision Timelines

- Sept - Oct: [NEMO Committee Consultation](#) opened 24th Nov, ending 8th January '24 (*submissions from SEMOpx members welcome*)
- NRA/ACER Approval: Nov '23 - Feb '24 (may change given consultation only closing January)
- MCSC Consideration / Decision period: Mar '24 - May '24
- Go_live - June '24

** Nearly lead to full decoupling*

SEMOpX Future Projects



Projects - Greenlink

➤ Greenlink (Target: Sept 2024)

- Similar market implementation to Moyle/EWIC
- Balancing Market Go-Live (to allow power flow testing) - Aug 2024
- Market Coupling Go-Live (capacities available to market) - Sept 2024
- Limited impact on Members (as changes are related to capacity submission and market coupling)
 - New information on SEMOpx website on Greenlink flows
 - Greater potential trades between SEM-GB in IDA1 and IDA2.

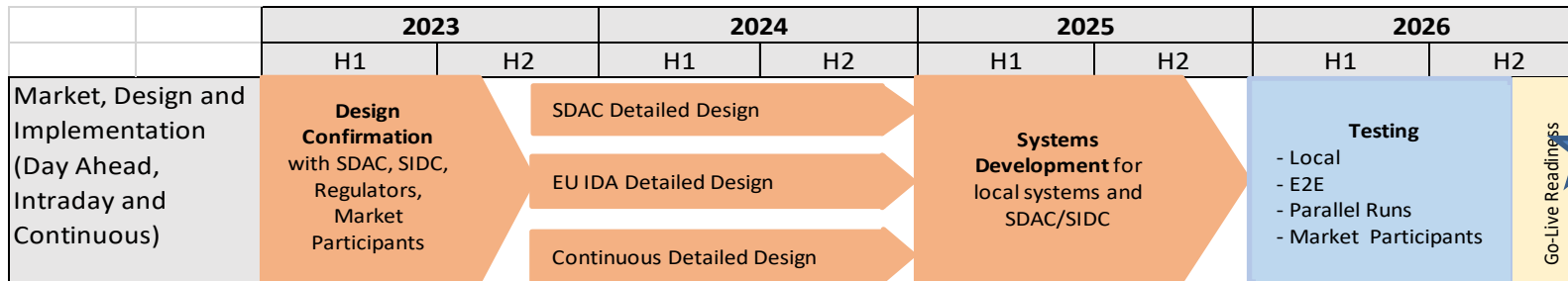
Projects - EU Integration

Scope

- SDAC EU Integration [SEM-FR]
- SIDC Intraday Auctions (IDAs) integration [SEM-FR]
- SIDC Intraday Continuous (IDC) integration [SEM-FR]

Indicative Timelines

- Design confirmation 2023
- Detail Design 2024
- System Development 2025
- Testing 2026
- Go-Live end of 2026



Detailed Design to confirm technical requirements for local systems and SDAC/SIDC

- **EU Integration Design Confirmation (Target: End of 2023)**
 - Ex-Ante Market Design proposed (May)
 - Feedback from Market Participants (July)
 - Discussions with RAs and finalisation of the baseline design ongoing
 - Further information on the wider programme including scope and timelines will be provided in the near future.

Projects: Transfer of Units

Background

- Currently the ex-ante and balancing market systems require a new unit id to be defined and implemented each time a unit changes ownership from one participant to another.
- This is due to technical restrictions in the systems which do not allow the same unit to be assigned to different participants (even for different timeframes).
- At present a transfer of unit can take more than 60 working days and requires considerable effort to implement as each new unit id added must complete testing before being released into production.
- The market operator is seeing more and more requests for the transfer of units between parties leading to large overheads in processing unit changes and longer delays in processing requests to transfer units.

Proposed Change

- No change to SEMOpX Rules or Operating Procedure. Change is purely technical.
- Enhance the balancing market and ex-ante trading systems to allow units to be transferred between participants while maintaining the same time sliced unit id information.

Benefits

- Faster transfer of units between market participants.
- Significant reduction in effort to complete each transfer
- Minimisation of risk of errors and delays in transfers.

Proposed Implementation Timelines - Update

- *Target was October 2023, now rescheduled to April 2024 (due to impacts on external Shipping agent system release)*

Question & Answer Section



Settlements Update

Sean O'Rourke



Ad hoc resettlement: Status update Dec 2023

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

Year	2018												2019																								2020																																																																										
Week	39	40	41	42	43	44	45	46	47	48	49	50	51	52	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	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
Adhoc1	Green																																																																																																														
Adhoc2	Green												Green																								Green																																																																										

Cells in Red are adhoc weeks left to process

Cells in Green are settlements runs that have been issued

- Ad hoc iteration 1 is now fully complete.
- Ad hoc iteration 2 is now fully complete.
- There will be a small number of billing periods which will need to be revisited again based on outstanding formal queries which were dependent on recent system release deployment to fully resettle the impacted billing periods. More detail on these weeks will be provided at the next MOUG in 2024.
- Business-as-usual (BAU) Ad hoc resettlement continues;
 - As committed to at the MOUG in Nov 2022, BAU Ad hoc resettlement began for all applicable upheld formal queries submitted after Oct 1st 2022
 - For the calendar months of Nov-22 to Dec-23, there were 37 billing periods processed & published due to upheld formal queries categorised as BAU Ad hoc resettlement.
 - Previously highlighted upheld dispute has also resulted in 35 billing periods from the 10/08/2021 to the 09/04/2022 to be resettled as Ad hoc resettlement. These are all now completed as of Settlement Document date 06/11/2023.



Settlements: Oct 2022 FMOC invoice update

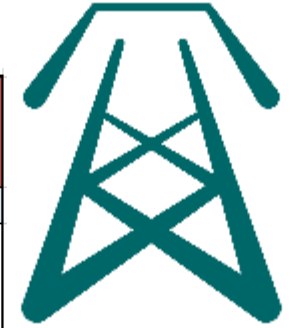
- FMOC Invoice published on Nov 15th included the incorrect CMOAU and CMOAV rates for ROI and NI market participants: Ref: [Market message](#) published on the 18/11/2022.
 - As per updates provided at the MOUG on Dec 15th & May 25th, SEMO Settlements had intended to publish an Oct 2022 MO Invoice which will reverse the original invoice issued, and to then re-publish the correct Oct 2022 MO invoice with the correct rates. End-to-end testing was required to complete the testing of this approach. As per TSC code, settlement systems are not designed to apply standard M4/M13 resettlement to FMOC data.
- **MOUG Dec 14th update:**
 - Testing outcomes have shown that that it is not possible to process reverse invoices on the Oct 2022 FMOC within the settlement systems. This is due to the timing and sequencing of Oct 2022 MO invoice resettlement data which has since been processed and published as an M13 MO Invoice.
 - The overall materiality estimated within the test environment is ~€54K due to ROI market participants (38) and ~£10K due to NI market participants (19) . ~€150 is owed to SEMO.
 - SEMO Settlements are committed to resolving this issue with the market, and now intend to issue a manual MO Invoice (PDF format) to impacted market participants which will reconcile the delta amount to be paid out by SEMO (or due to SEMO).
 - The manual invoice will be issued out a week or two in advance of a standard monthly MO Invoice run (2nd Tuesday of each month) to allow participants additional time to process, with payments in/out for the manual invoice to be aligned with a standard monthly scheduled MO Invoice payments in/out dates.
 - Interest will not be applied to payments or charges for this manual FMOC reconciliation.
 - More details on this approach and planned timings will be communicated through market messages and at one of the upcoming weekly market participant calls in Jan 2024.



Settlement Docs. Christmas Summary 2023

Settlement Calendar (sem-o.com)

Settlements Operational Date	Day	Christmas period Settlement Documents: (Please also check Settlement Calendar for further details)				Payments In Date	Payments Out Date
		Type	Initial	M4	M13	Adhoc	
22/12/2023	Friday	BALIMB	(10/12/23 - 16/12/23) – Week 50 2023	(20/08/2023 - 26/08/23) – Week 34 2023	(20/11/2022 - 26/11/22) – Week 47 2022	(17/09/2023 - 23/09/23) – Week 38 2023 (24/09/2023 - 30/09/23) – Week 39 2023 (01/10/2023 - 07/10/23) – Week 40 2023 (08/10/2023 - 14/10/23) – Week 41 2023	02/01/2024 03/01/2024
		Monthly CRM	N/A				
04/01/2024	Thursday	BALIMB	(17/12/23 - 23/12/23) – Week 51 2023	(27/08/2023 - 02/09/23) – Week 35 2023	(27/11/2022 - 03/12/22) – Week 48 2022	N/A	09/01/2024 10/01/2024
		Monthly CRM	N/A	August 2023	November 2022	N/A	
08/01/2024	Monday	BALIMB	(24/12/23 - 30/12/23) – Week 52 2023	(03/09/2023 - 09/09/23) – Week 36 2023	(04/11/2022 - 10/12/22) – Week 49 2022	N/A	11/01/2024 12/01/2024
		Monthly CRM	N/A	N/A	N/A	N/A	



- **Credit report publications:** No credit reports to publish on the 27th December, with one credit report to publish on the 28th December. Three reports to publish on December 29th .
- **Cash Collateral refunds reminder** - need to be received no later than the 14th December, as up to five days to process which brings the schedule up to the 21st December.
- **Strike Price for Billing Week “31/12/23 - 06/01/24”** will issue on Thursday 28th December 2023

Settlement Documents to issue Friday 15th Dec 2023

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

Settlement Document for Friday 15 th Dec:
INITIAL BALIMB - (03/12/23-09/12/23) - Week 49 2023
M+4 BALIMB - (13/08/23-19/08/23)- Week 33 2023
M+13 BALIMB - (13/11/22-19/11/22) - Week 46 2022
AH BALIMB - (13/01/19-19/01/19) - Week 2 2019
AH BALIMB - (10/03/19-16/03/19) - Week 10 2019

Question & Answer Section



System Operations Update - Ireland

Charlie McGee



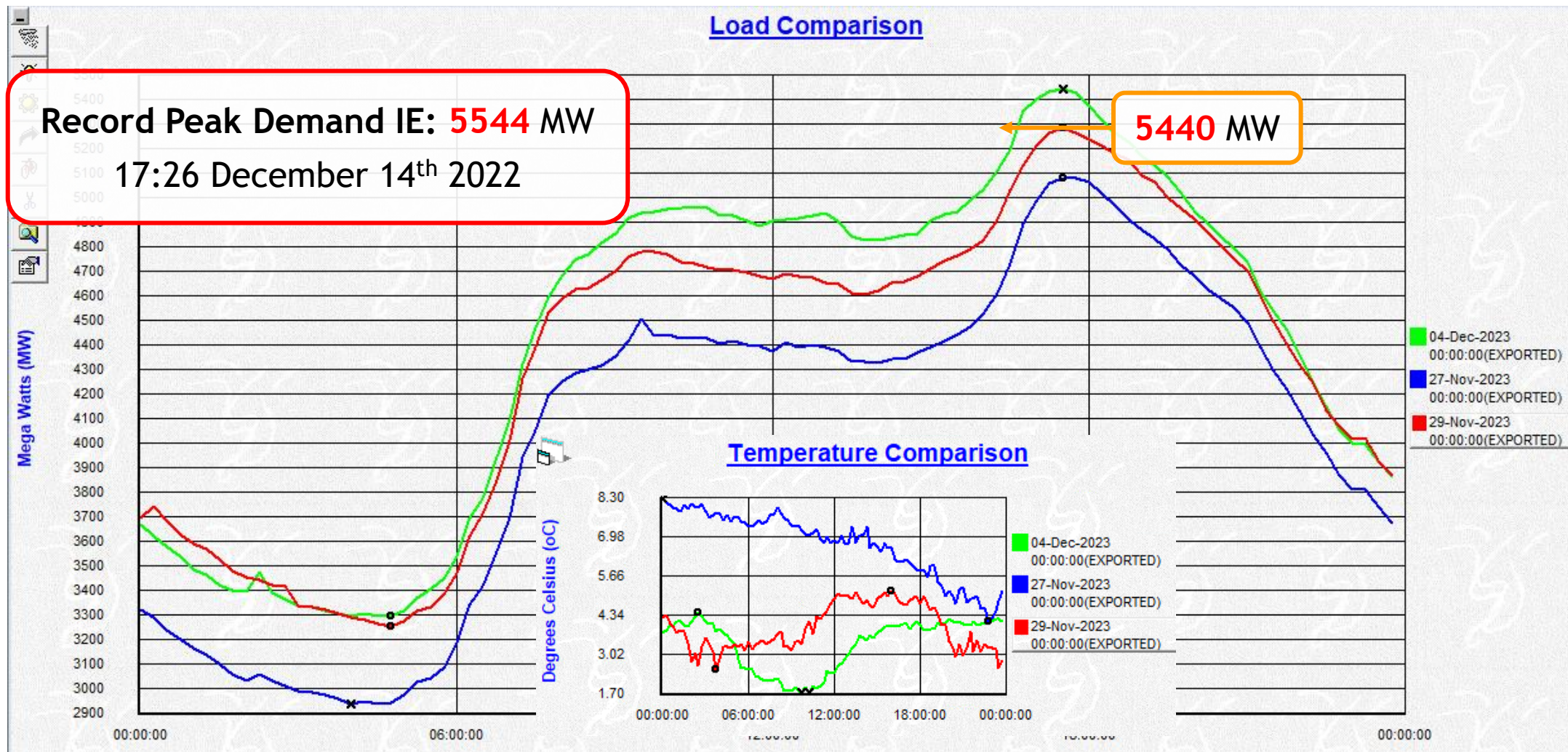
14/12/2023

Power System Winter 23/24 Update

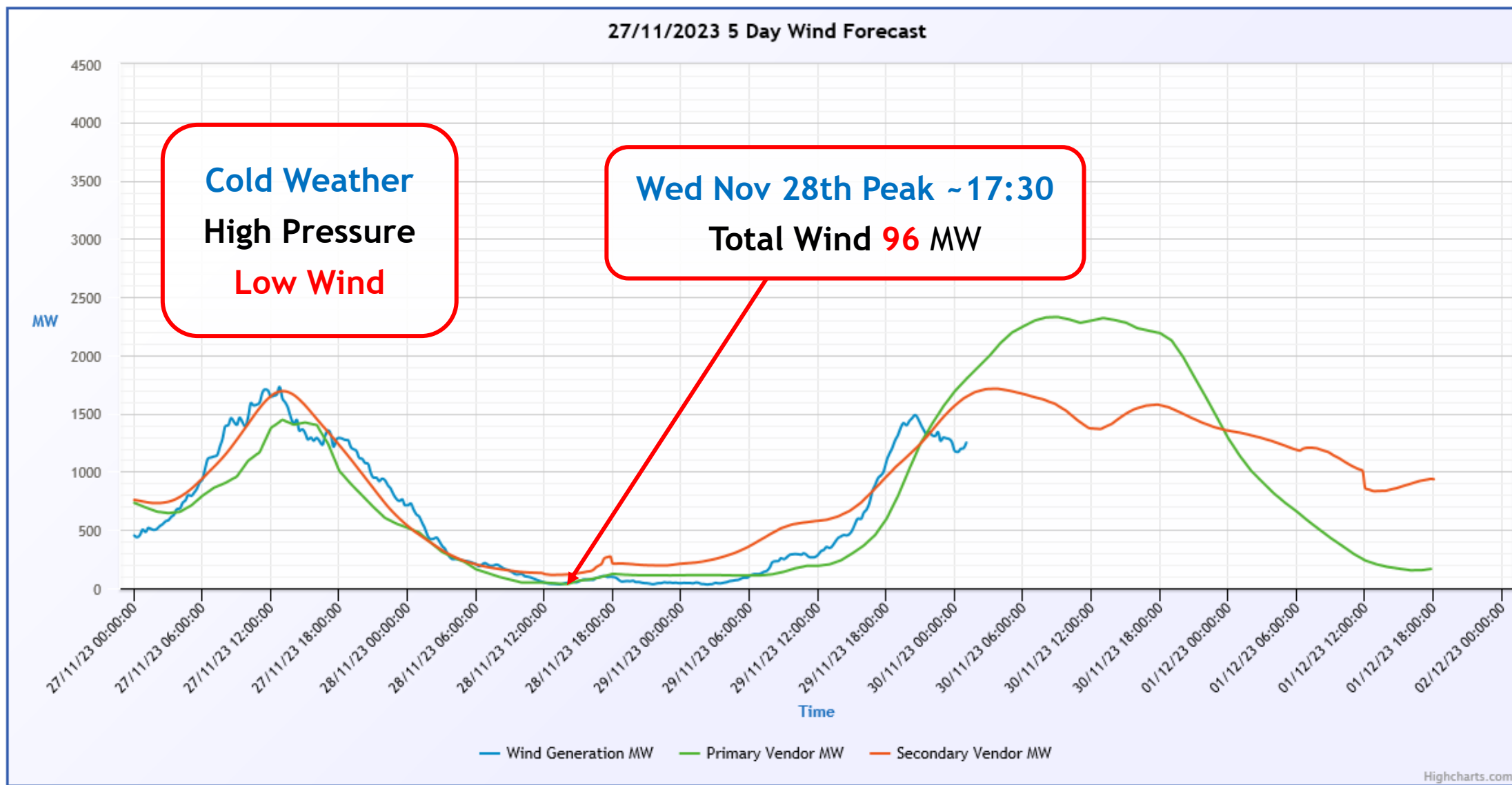
Charlie McGee



Power System Update - 'Winter Is Coming'



Power System Update



Power System Update

Keeping the Lights On

- Conventional generation availability good
 - Installed ~5.7 GW, Available ~5.5 GW
 - North Wall TEG imminent ~200 MW
- Importing heavily on EWIC & Moyles
 - Market forces working
 - Regional TSO Coordination via Cores
- Peak shaving using 'Long Run' batteries
- Aside from 'cold' snap, wind generation good

***New Forced Outages!!**

MP2 (285 MW)
DB1 (415 MW)
GI4 (464 MW)
HN2 (402 MW)
WG1 (444 MW)



Question & Answer Section



System Operations Update - NI

Sean O'Hara

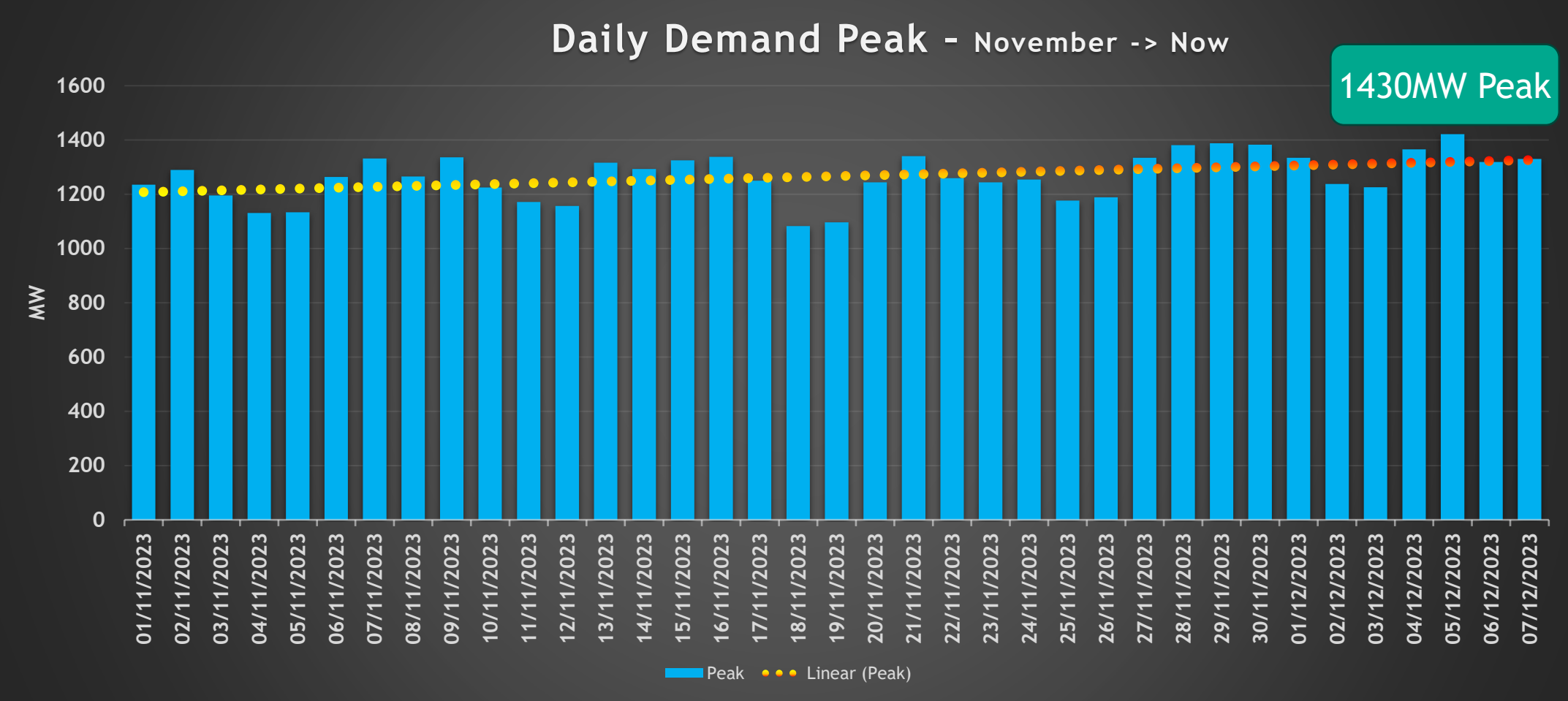


System Operations Update - NI

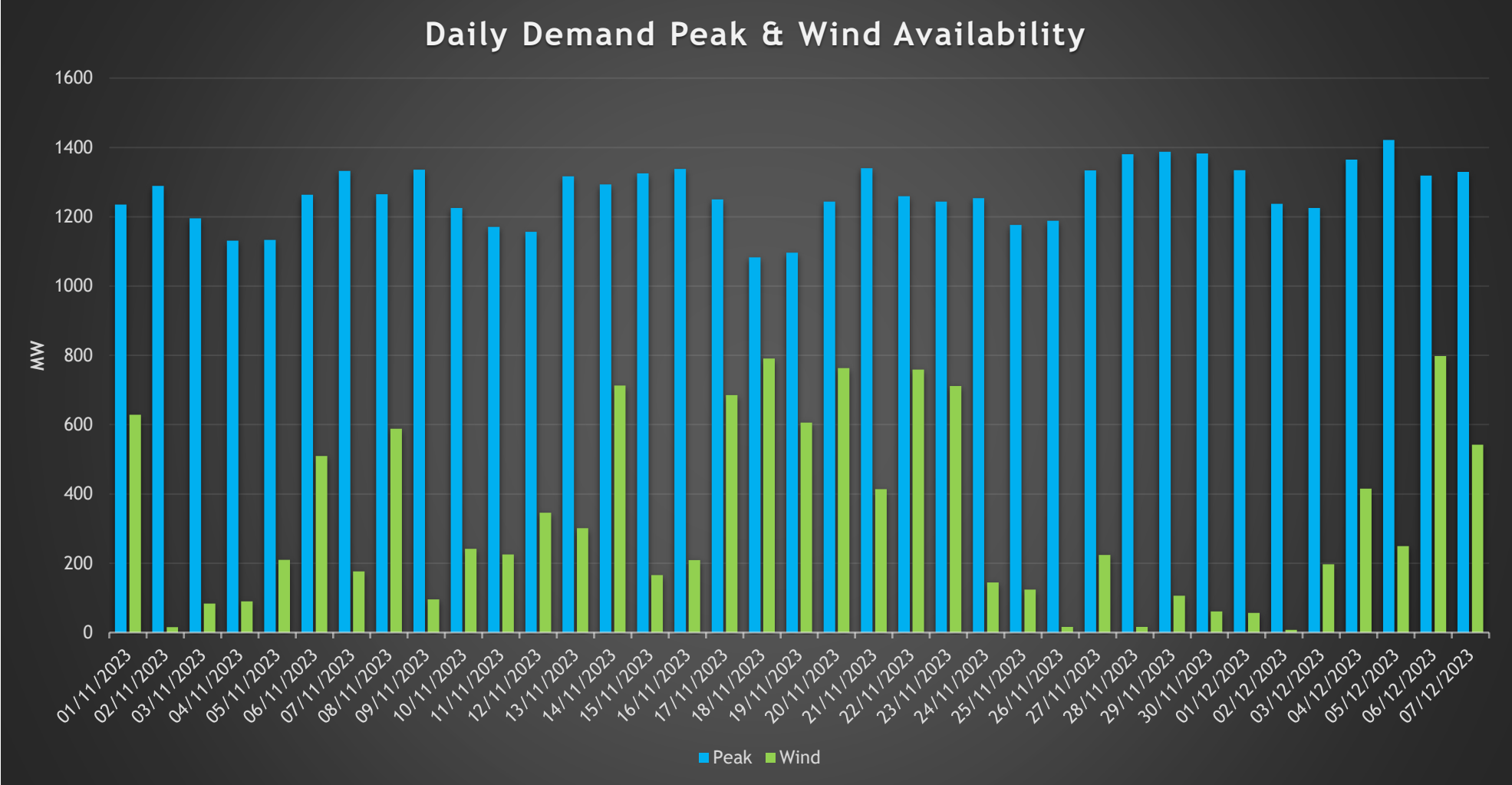
Keeping the Lights On

- Conventional generation availability good, although margins are tight
 - No planned generator outages over the next few weeks
- Only short RTS transmission outages going ahead
- Predominantly importing heavily on Moyle over peak
 - Approaching Winter peak demand - currently seeing peaks of 1430MW+
 - Daily peak more than available conventional generation (not inc. GTs)
 - Uncertain availability of support from IE
 - Important reliance on Moyle imports on very low wind days

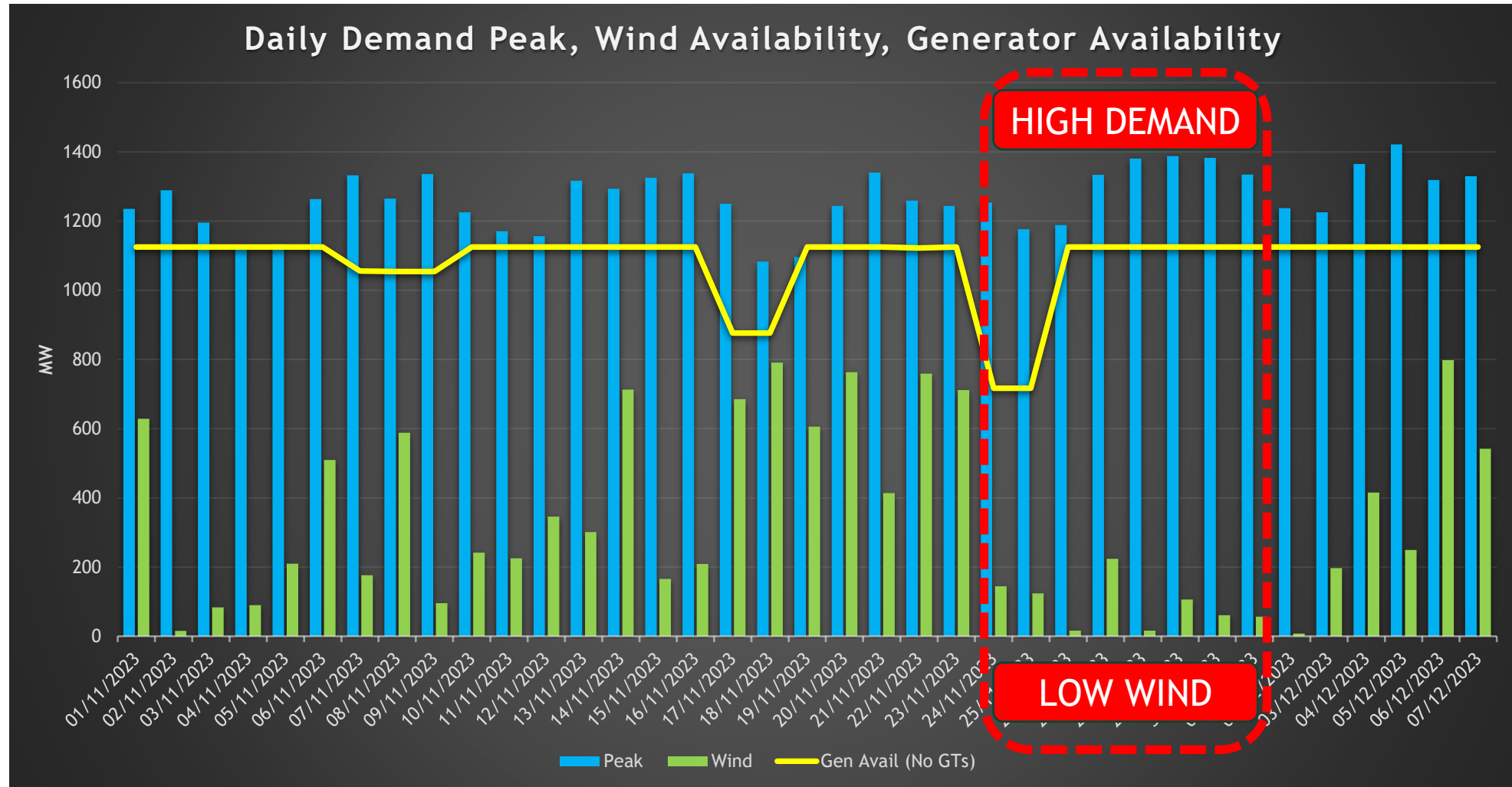
System Operations Update - NI - Last 30 Days Peak Demand



System Operations Update - NI - Demand & Wind



System Operations Update - NI - Margin Issues



System Operations Update - NI - 27th to 30th November

27th November

Throughout the week, Northern Ireland declared plant availability was 1571MW.

- This 1571MW included 200MW of NI Batteries which are typically excluded from Margin calculations due to their energy limited nature and operational dependence on the units for reserve provision.
- Although DSU availability was 34MW, operational de-rating reduces this for margin calculations.
- Taking account of the above considerations actual NI availability was 1363MW.

The weather from Tuesday 28th onwards was cold, with freezing temperatures overnight. This led to an increase in demand accompanied by very low levels of renewable generation. A peak evening demand of 1388MW occurred on Wednesday 29th (demand levels were consistent across Tuesday-Thursday).

Plant availability of 1363MW (exclusive of batteries) was insufficient to meet the demand figure of 1388MW, NI were dependent on high volumes of support to avoid alert state.

System Operations Update - NI - 27th to 30th November

28th November

- Wind forecast was < 10MW throughout the day with the actual output below forecast, 19MW at peak
- Moyle Interconnector was at full import throughout the day
- In IE two units were on forced outage
- Despite full import on EWIC, IE were forecasting alert based on the uncertain plant availability and therefore IE support was assumed to be 0MW.
- The NI system margin which occurred on the evening of the 28th, was on the verge of alert status, and relied on an assumed contribution from battery sources across the evening peak to avoid alert.

29th & 30th November

- Due to worsening margins in GB, interconnector support was on both Moyle and EWIC was significantly less than on the 28th. Alert was avoided on these dates due to improved plant availability leading to increased South – North support and Security trading on Moyle interconnector on both the 29th and 30th.

Question & Answer Section



Market Interface

Rosaleen Fanning



SEMO Helpdesk Hours Over Christmas Period

- The SEMO Helpdesk will be unavailable from 17:00 on Friday, 22nd December 2023 up to 09:00 on Tuesday, 02nd January 2024 except for the 28th and 29th December 2023. This includes info@sem-o.com and non-urgent phone lines.
- Wednesday, 27th December 2023, we will be available to take urgent calls on 1800 726 772. Please see below the relevant contact details should you have a Limited Communication Failure Issue.

The SEMO LCF Hotline is available 24/7 365 days a year for any emergency operational issues relating to Limited Communication Failures.

Phone: +44 (0) 28 90 707415

Email: LCF@sem-o.com

Market Participant Interface (MPI) - Contact Information

- We would like to ask Market Participants to please check and ensure your MPI Certificate remains valid over the Christmas period. Certificates are valid up to one year.
- If your MPI Login password is due for renewal the message on the right will appear, please click on the word 'here' to update.
- If you receive 'User account has expired', please email info@sem-o.com for assistance.
- We would also like to remind you of the importance of ensuring your contact information and authorizations are fully up to date on the MPI.

Your password expires on 2021-02-07 13:47:53 (430065 seconds)

Please Login

Reset your password [here](#)

Submit

SEMOpX Helpdesk Hours Over Christmas Period

- SEMOpX will remain available 24/7 for Urgent Operational Issues relating to the DAM/IDM, including ETS/M7 Availability, Connectivity issues, Password Resets etc.

Urgent Operational Issues

- Email: marketops@ops.semopx.com
- ROI: 1800 283 010 (select option 1 or 2)
- NI: 0800 008 3010
- International: +353 1 668 8183

- The SEMOpX Helpdesk will be unavailable from 17:00 on Friday, 22nd December 2023 up to 09:00 on Tuesday, 02nd January 2024 except for the 28th and 29th December 2023. This includes info@semopx.com and non-urgent phone lines.
- Wednesday, 27th December 2023, we will be available to take urgent calls on 1800 283 010 and select option 3.

Dates to Note 2024

- The next Thursday Participant call @09.30am will take place on 04th of January 2024.

(We would also like to remind Participants the call does start on time, if you do wish to join, please make sure you are in the lobby @09.30am)

- The Market Operator User Group (MOUG) meetings are scheduled on the following dates:
 - 25th January
 - 14th March
 - 16th May
 - 05th September
 - 07th November
 - 12th December



Close

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

Thank you for your attendance.

