

# Market Operator User Group

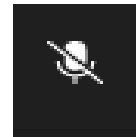
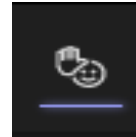
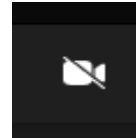
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8<sup>th</sup> September 2022

# Housekeeping Rules

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- 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

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# Agenda

Item	Presenter
Welcome	Anne Fitzgerald
Release Program Update	Mark Hogan
Ex-Ante Markets	David Beirne
Repricing Update	Dermot Campfield
ETS Update, M7; Market Changes; SCO, Training	John Rooney
Settlements Update	Sean O'Rourke
Market Interface Update	Rosaleen Fanning
System Operator Update	Michael Coone
Q&A	



# Release Program Update

## Mark Hogan

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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 target deployment date: November 8, 2022

# Priority Item Delivery Plan – MMS System Delivery

Delivery Schedule												
Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hitachi Energy Rel. J Nov 22			CR Scoping CR Assess	Defect Scoping	Defect Assess	SIT/UAT Scripting FAT	Deploy	SIT	UAT	OAT		
Hitachi Energy Rel. K Mar/Apr 23					CR Scoping CR Assess	Defect Scoping	Defect Assess	SIT/UAT Scripting	FAT			

# Release K – April/May 2023

EirGrid CR	System	Description
<b>CR-241b QBOA Undo scenario 3</b>	MA	In certain conditions there have been incorrect pricing and settlement outcomes due to bid offer acceptance volumes not being correctly calculated. This change will enable the creation of pseudo dispatch instructions from validated instructions which will help alleviate this issue.
<b>CR-279 30 min MTU</b>	CSB	Change the Market Time Unit (MTU) such that the DAM can be processed in 30 minute increments from the current 60 minute increments as per section 8.2 of the Clean Energy Package (CEP).
<b>CR-263 transfer of units</b>	MI/CSB	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
<b>CR-282 Automation of CSB Settlement Processing</b>	CSB	Includes: the automation of certain manual procedures; the combination of certain, separate, daily pre-calcs into one function; and automation of daily settlement statement and reporting process.
<b>CR-261 CPLEX &amp; AMPL Upgrade</b>	MA	Upgrade of 3rd party mathematical software used in the market



# Internet Explorer 11 (IE11) End of Life

- Microsoft support for Internet Explorer 11 (IE 11) ended for “Windows 10 semi-annual channel” June 15, 2022.
- Participants should be using Microsoft Edge with IE mode
- Updates will be published to: the ISEM Technical Specification Volume B; I-SEM Communication Channel Qualification Test (CCQT) Market Participant Guide; I-SEM System Access Bulletin



# Ex-Ante Markets

## David Beirne

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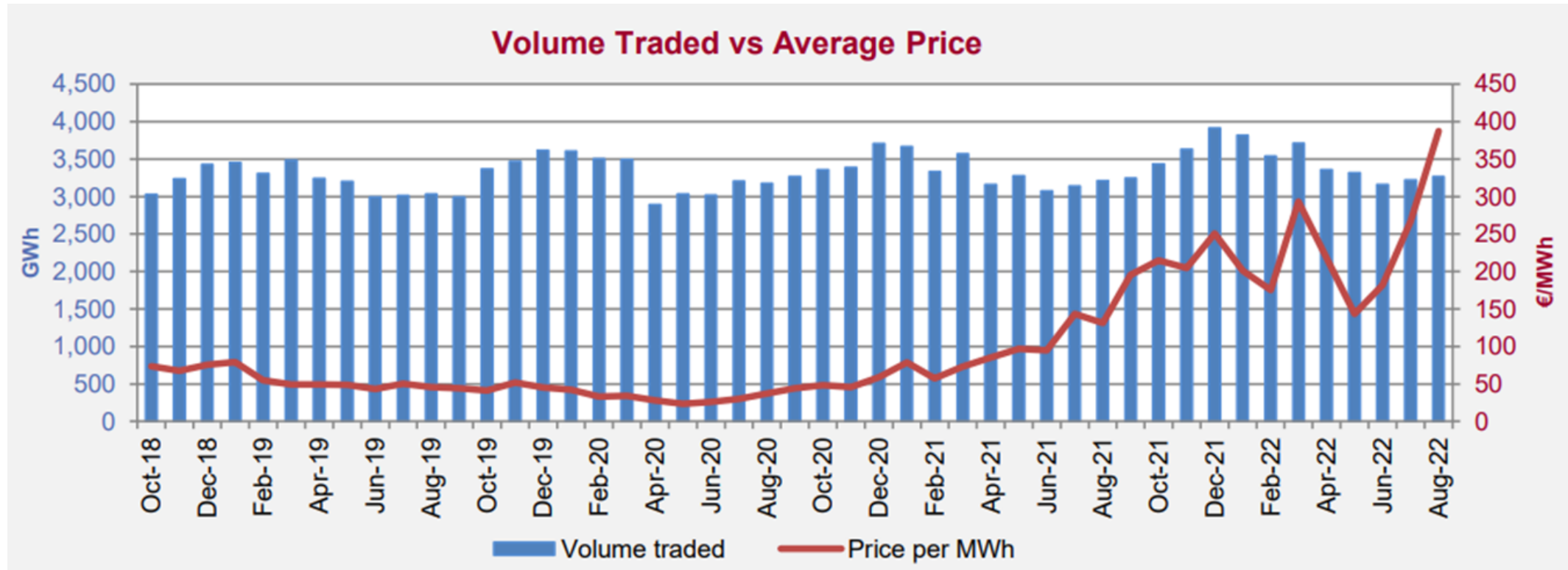


# Ex-Ante Markets

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

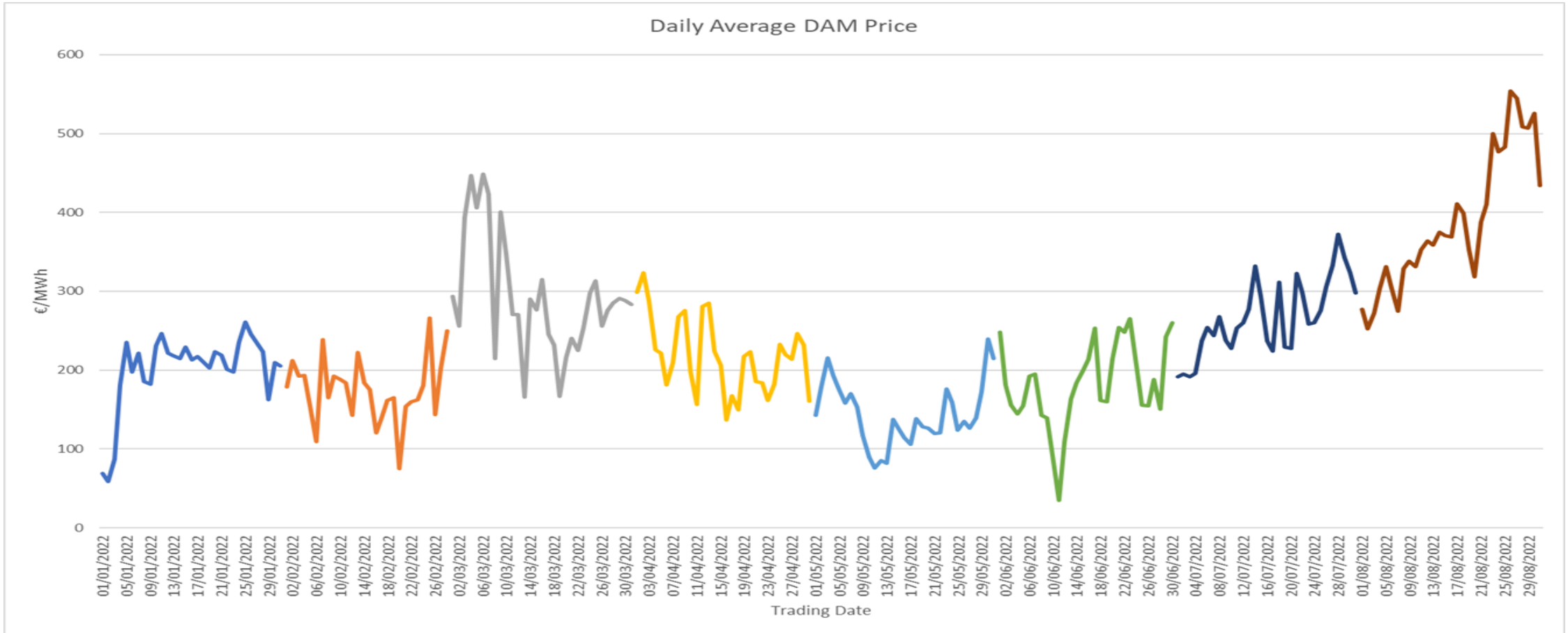
# Ex-Ante Markets - DAM



- The monthly average prices across June, July and August were €180, €265 & €390 respectively.
- The traded volumes in DAM remain at consistent levels.



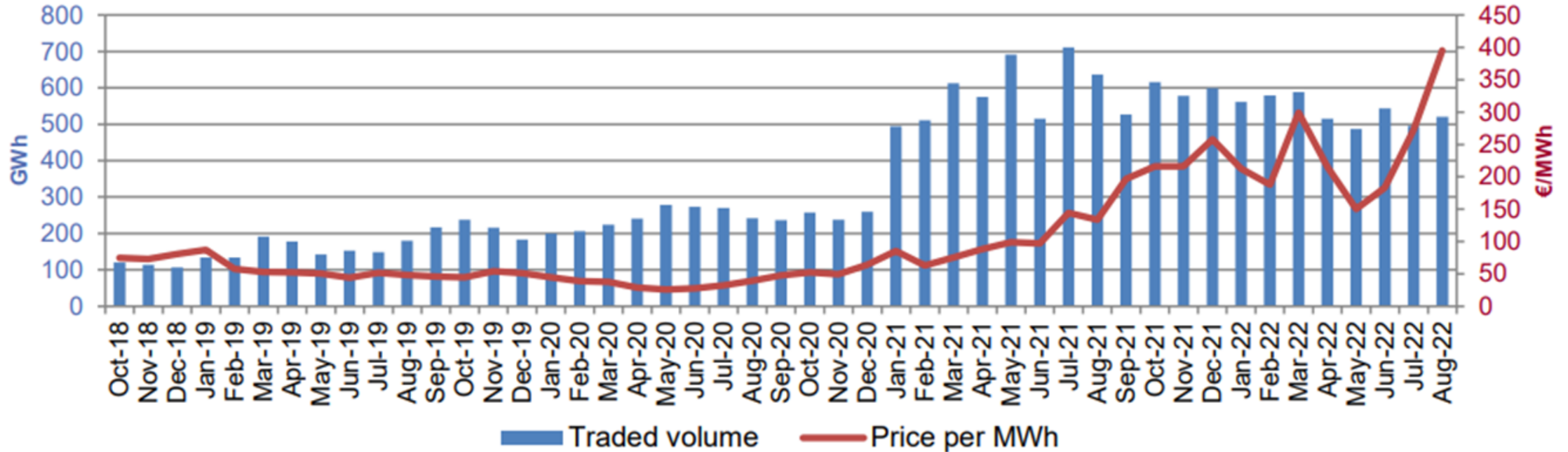
# Ex-Ante Markets - DAM



- New all time high prices experienced in August 22 superseding the March 22 highs.
- Six of the closing days in August resulted in daily average prices in excess of 500 €/MWh.

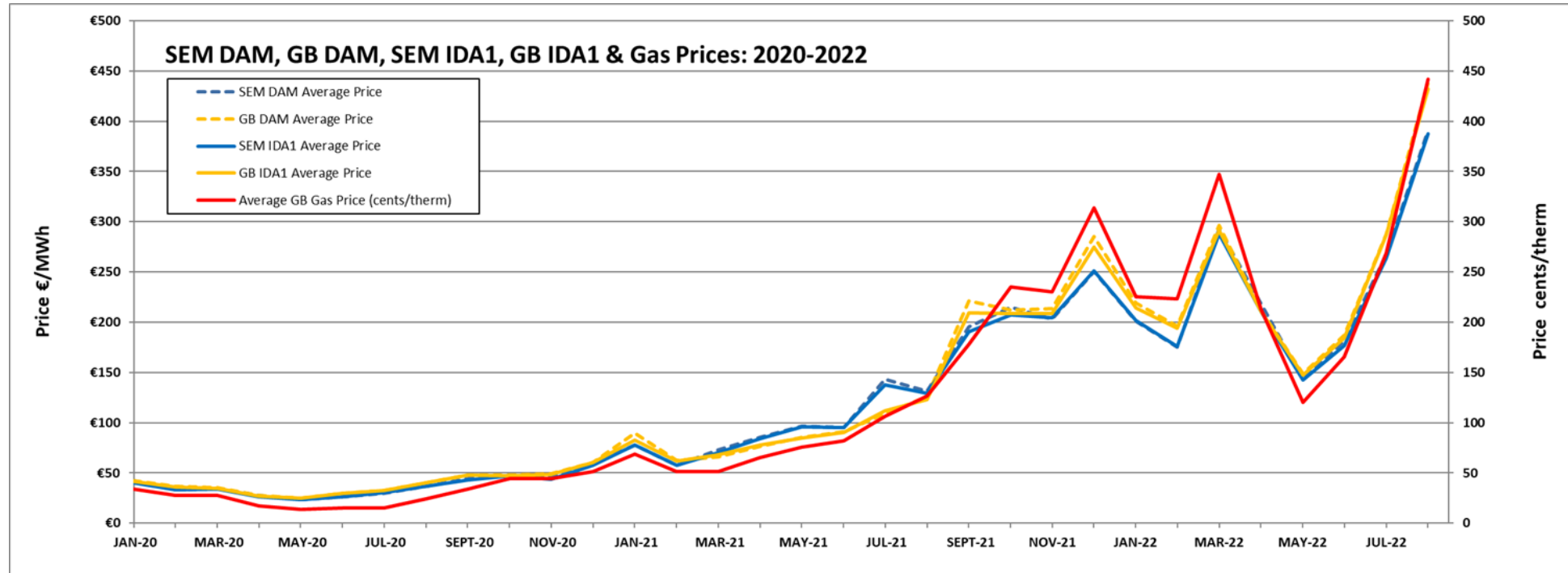
# Ex-Ante Markets - Intraday

Volume Traded vs Average Price



- The Intraday prices show similar trends to DAM.
- The monthly average prices across June, July and August were €180, €270 & €395 respectively.

# Ex-Ante Markets – 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 lower in both DAM and IDA1 in each respective market.
- Market prices remain susceptible to the volatility of the gas price.

### DAM Average Prices

Jul-22  
Aug-22

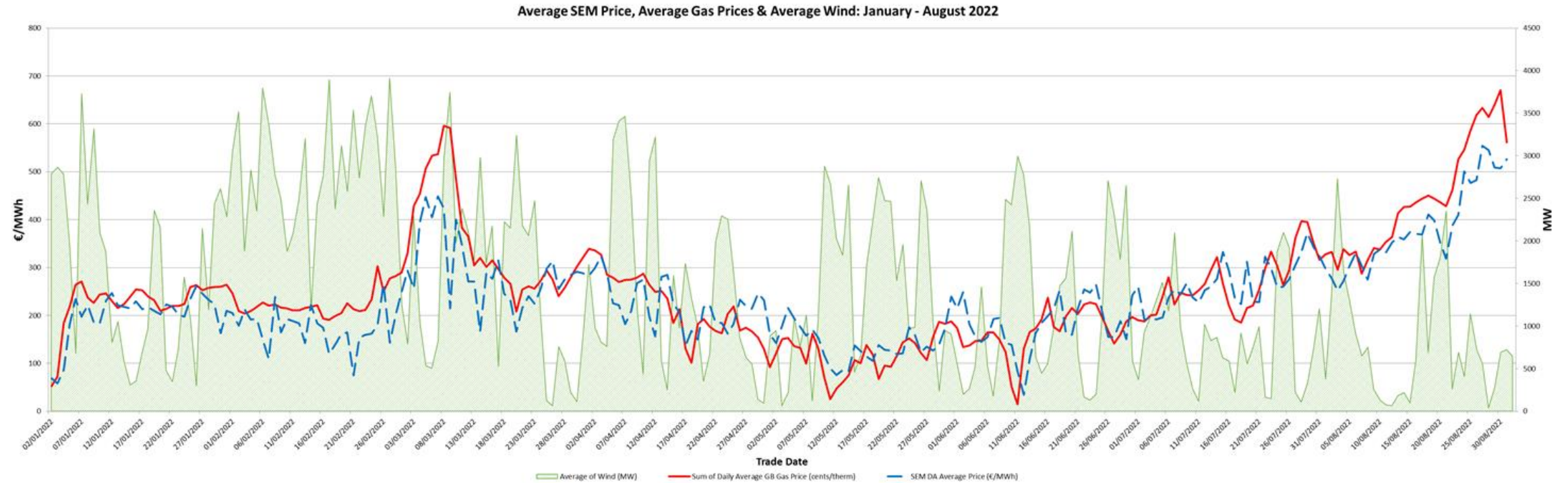
SEM	GB Index	Spread
€ 266.86	€ 287.06	-€ 20.19
€ 391.26	€ 438.19	-€ 46.93

### IDA1 Average Prices

Jul-22  
Aug-22

SEM	GB Index	Spread
€ 263.45	€ 286.80	-€ 23.36
€ 387.55	€ 431.94	-€ 44.39

# Ex-Ante Markets – 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.



# Repricing Update

## Dermot Campfield

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# Repricing Update

Trading Day	ISP Impacted	Issue	Status	Date Repriced
31/10/2020 (1)	12:00 to 20:00	Incorrect QBOA Calculated for a Unit, initial conditions incorrect.	In assessment	TBC
05/08/2021 (2)	03:30 to 16:00	Incorrect COD applied for a Unit.	In assessment	TBC
05/11/2021 (2)	08:00 to 08:30 10:00 to 11:00 15:30 to 17:00	Incorrect COD applied for a Unit, Complex applied instead of Simple.  Defect resolved in Release I.	In assessment	TBC
07/06/2022 –(3) 08/06/2022	16:00 to 14:00 (inclusive)	Wind Dispatch Instructions not applied to the Imbalance Pricing calculation.	Not Started	TBC
01/07/2022 (3)	19:30 to 20:00 21:00 to 23:00	Incorrect price calculation, due to PBOA application (still under investigation with vendor)	Not Started	TBC
02/07/2022 (3)	01:00 to 06:00	Incorrect price calculation, due to PBOA application (still under investigation with vendor)	Not Started	TBC
17/08/2022 – (3) 19/08/2022	03:30 to 11:30 (inclusive)	Wind Dispatch Instructions not applied to the Imbalance Pricing calculation.	Not Started	TBC

- Category (1) – Solution provided, currently testing, next step Materiality Assessment pending positive test outcome.
- Category (2) – Still currently working on a solution to assess materiality; no projected date for fix.
- Category (3) - We are able to carry out materiality, procedure requires category (1) item to be completed before these can be progressed.



# ETS Update, M7; Market Changes; SCO, Training John Rooney

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# ETS Releases

Version	Content	Client	Impact	Timeline*
V3.6.3	<ul style="list-style-type: none"> <li>Finalization of scoping in progress</li> <li>Scalable Complex Orders</li> </ul>		API and SCO Product inclusion	Q4 2022
V3.7	<ul style="list-style-type: none"> <li>TBD</li> </ul>			TBD

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



# ETS Maintenance Windows

Date & Time	Impact	Reason	Communication
13/09/2022	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
19/09/2022	Maintenance	HMMCP Deployment	OMM message (email sent a week in advance and on the same morning)
11/10/2022 TBC	Maintenance	Monthly Maintenance	OMM message (email sent a week in advance and on the same morning)
08/11/2022 TBC	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 2<sup>nd</sup> Tuesday of the Month.

# M7 Releases

Version	Content	Impact	Timeline
V6.13	Release notes / Impact to be sent.	API Changes and New Xsim environment available	13.09.2022

# M7 Maintenance Windows

Date & time	Impact	Reason	Communication
13/09/2022 TBC	Maintenance	M7 6.13 Version Update	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
11/10/2022 TBC	Maintenance		M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
08/11/2022 TBC	Maintenance		M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
13/12/2022 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 2<sup>nd</sup> Tuesday of the Month.

# Upcoming Market Changes in Production

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- Due to the 60% maximum price threshold being exceeded in the Day Ahead market on 16th August 2022, this has resulted in the maximum clearing price increasing from €4,000 to €5,000
- Price increase will be implemented on the SDAC auction for ROI and NI areas. The IDA 1 / 2 / 3 auctions will remain unimpacted
- Test dates have been scheduled for 5<sup>th</sup> and 12<sup>th</sup> September
- Effective on: 20<sup>th</sup> September 2022, (For Trade Date 21<sup>st</sup> September 2022).
- All orders for ROI members in the DAM auction shall be deleted and require to be re-entered

Link to full communication [here](#).



# Scalable Complex Order Project

## Recap of SCO Project

7 <sup>th</sup> Monthly Member Meeting (Submission/Retrieval Training Session & Trial outline)	13 <sup>th</sup> May
Switch to Weekly Member Meeting format throughout the Trial Simulation: - Monday (Outline of the weekly Runbook / Member Query submission) - Friday (Auction Analysis of the current Trial week / Member Query Submission)	June - To Date

- Completion of both the SCO Conversion and System Design phases of the project, midway point of the Trial Simulation, the go-live of the project remains targeted for November 2022.
- The start of the Trial phase was delayed by 4 weeks but no impact to the go-live date.

(If you have any queries regarding the Trial Simulation or general queries on the project, please provide notification regarding both instances, to [membertest@semopx.com](mailto:membertest@semopx.com)).

# Scalable Complex Order Project

## Full Schedule by Trial Week:

Trial Week	Trial Week Start Dates	Trade Date Simulated	Scenario
Weeks 1 & 2	8 Aug – 19 Aug	06/01/2021	High Demand & Low Wind
Weeks 3 & 4	20 Aug – 2 Sep	18/07/2021	Low Demand & Low Wind
Weeks 5 & 6	3 Sep – 16 Sep	30/09/2021	Low Demand & High Wind
Weeks 7 & 8	17 Sep – 30 Sep	11/02/2021	High Demand & High Wind
Week 9	1 Oct – 7 Oct	TBD	Contingency: Scenario based on member feedback
Week 10	8 Oct – 14 Oct	TBD	Contingency: Scenario based on member feedback
Week 11	15 Oct – 21 Oct	TBD	Contingency: Scenario based on member feedback
Week 12	22 Oct – 28 Oct	TBD	Contingency: Scenario based on member feedback

# Upcoming Training Session

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- SEM-GB Decoupling Member Test (October 2022, date TBC)
  - *Details to be provided in advance of this session, outlining the registration process, reasoning and expectations of each session*
  - *Can members provide feedback or proposals, on any potential changes, regarding this session?*

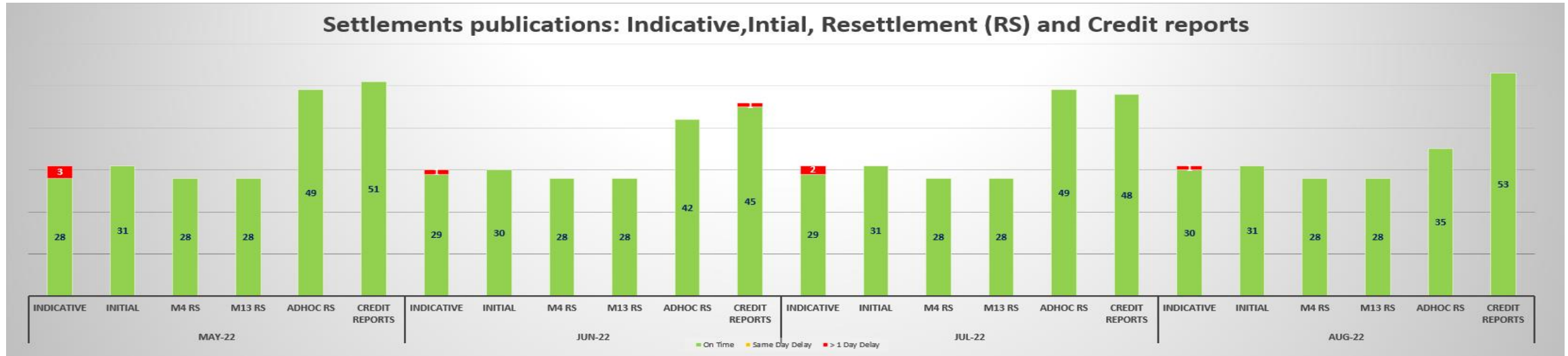
# Settlements Update

## Sean O'Rourke

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# Settlement Publications & Timelines : May 2022 – Aug 2022



**May 2022**

- **215** settlement publications on time
- 3 delayed indicatives due to MDP Data delay – SONI MDP data (1), CIM Load schedule impact (1) and Instruction Profiler (IP) data issue
- All issues now resolved

**June 2022**

- **203** settlement publications on time
- 1 delayed indicative due to MDP Data delay – SONI MDP data
- 1 Credit report not published June 7<sup>th</sup> due to data transfer issue
- Issue now resolved

**July 2022**

- **213** settlement publications on time
- 2 delayed indicatives due to MDP Data delay – MRSO MDP data (1), CIM Load schedule impact (1)
- All issues now resolved

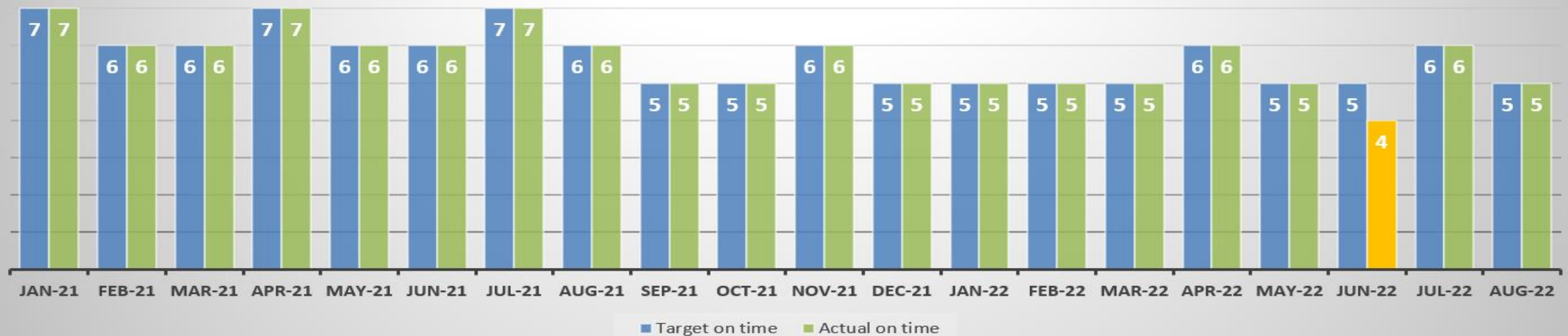
**Aug 2022**

- **205** settlement publications on time
- 1 delayed indicative due to Instruction Profiler (IP) data issue
- Issue now resolved



# Settlement Documents Publications & Timelines : Jan '2021 – Aug '2022

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



## Settlement Document updates:

- **113** Settlement Documents (SDs) published on time between Jan 2021 and Aug 2022 (includes BALIMB, Capacity and MO Invoices)
- **1** delayed BALIMB & CRM SD: Delayed SD on June 13<sup>th</sup> due to settlement document creation timelines (took 2 hours to create in the Settlement systems). Hotfix tested and deployed with issue now resolved.

# Ad hoc resettlement: Status update Sep 2022

## Scheduled Ad hoc resettlement completed to date – 1<sup>st</sup> 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	Jun-22	Jul-22	Aug-22	Sep-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	Feb-22	Mar-22	Apr-22	May-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	May-21	Jun-21	Jul-21	Aug-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	Jan-20	Feb-20	Mar-20	Apr-20

## Scheduled Ad hoc resettlement completed to date – 2<sup>nd</sup> 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	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	Feb-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

### Ad hoc summary: Mar-21 to Sep-2022

- Ad hoc iteration **1** resettlement is up to the 21/03/2020 . **77** weeks / billing periods processed and published to date.
- Ad hoc iteration **2** resettlement is up to the 23/04/2020 . **20** weeks / billing periods processed and published to date
- **2018** Ad hoc resettlement is now closed out
- **19 weeks** of Adhoc processed in Q2 (Jan-Mar 2022) meeting **KPI** target of 18 weeks over a 12-week period
- **18 weeks** of Adhoc processed in Q3 (Apr-June 2022) meeting **KPI** target of 18 weeks over a 12-week period
- **12 weeks** of Adhoc processed in Q4 **to date** (July - Sep 2022) to meet **KPI** target of 18 weeks over a 12-week period



# Settlement Documents to issue, Friday 9<sup>th</sup> Sep 2022

## Settlement Document :

INITIAL BALIMB – (28/08/22-03/09/22) – Week 35 2022

INITIAL CRM – August 2022

M+4 BALIMB – (08/05/22-14/05/22) – Week 19 2022

M+13 BALIMB – (08/08/21-14/08/21) – Week 32 2021

Ad-Hoc BALIMB – (22/03/20-28/03/20) – Week 12 2020



# Market Interface Update

## Rosaleen Fanning

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# General Queries - 24th May – 05th September 2022



# Formal Queries and Disputes - January – August 2022

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## Formal Queries:

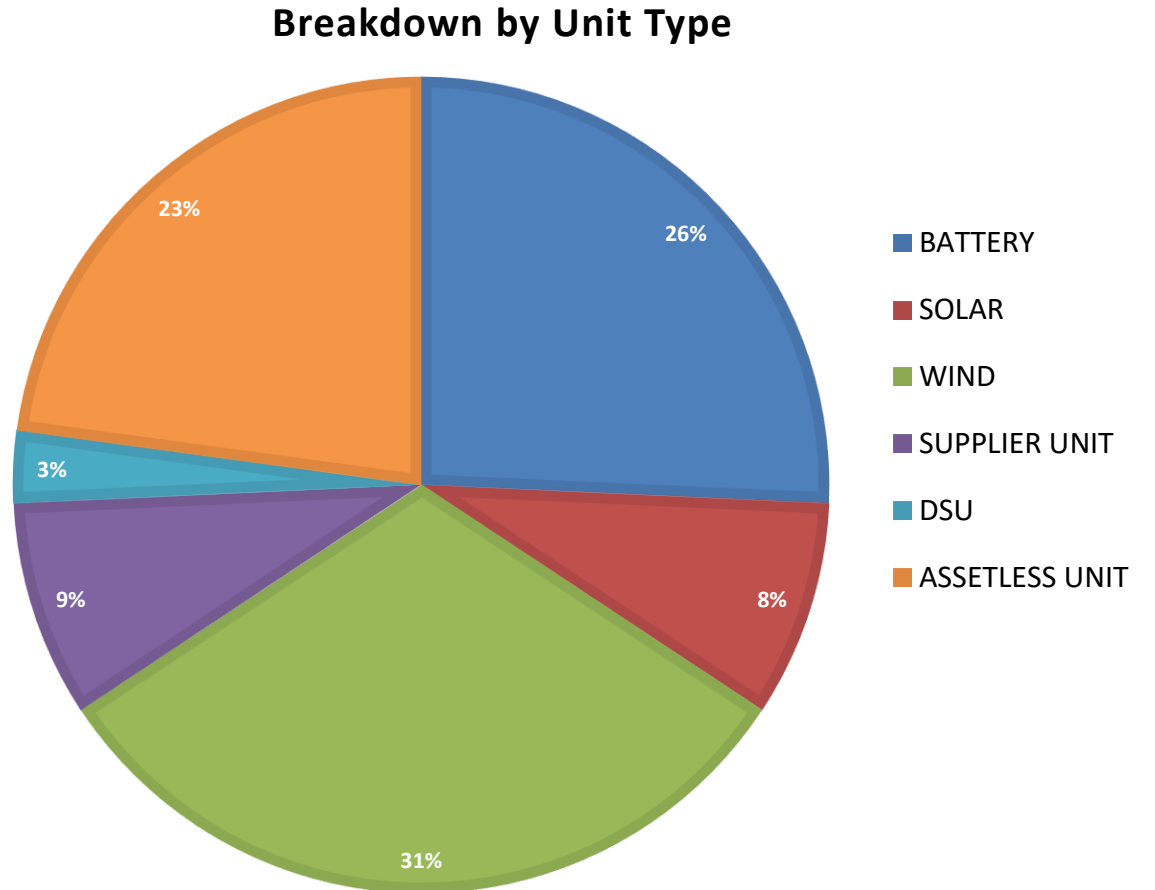
110 Formal Queries were received, of which 101 are now completed (75 were upheld, 25 were not upheld and 1 was rejected) and 9 are ongoing.

## Disputes:

Four Disputes (two General Disputes, one Settlement Dispute and one Pricing Dispute) were raised in this period.

# Balancing Market Registration - January – August 2022

- 13 new Parties joined the market
- 35 unit registrations
- 13 unit de-registrations



# System Operator Update

## Michael Coone

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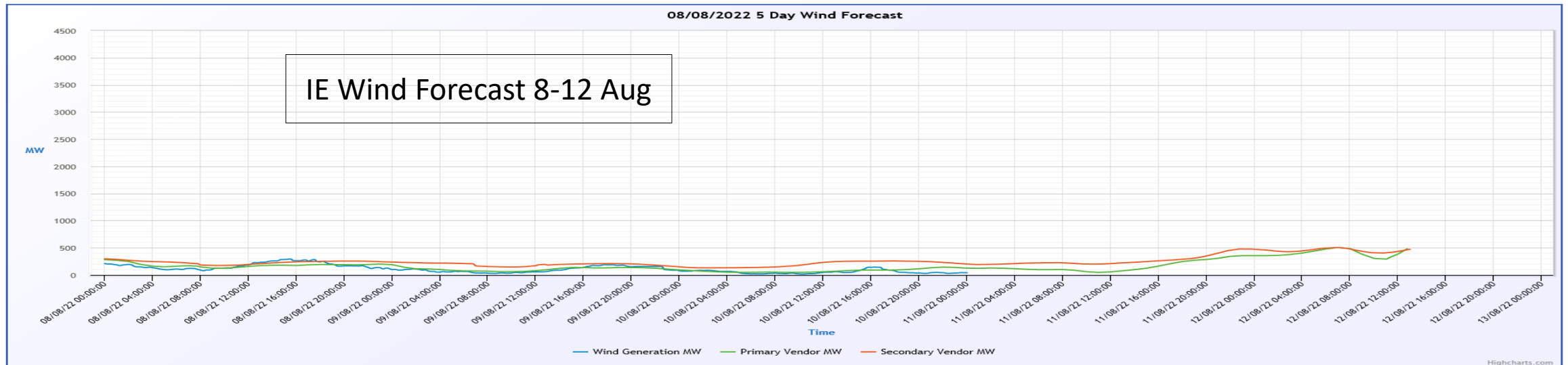
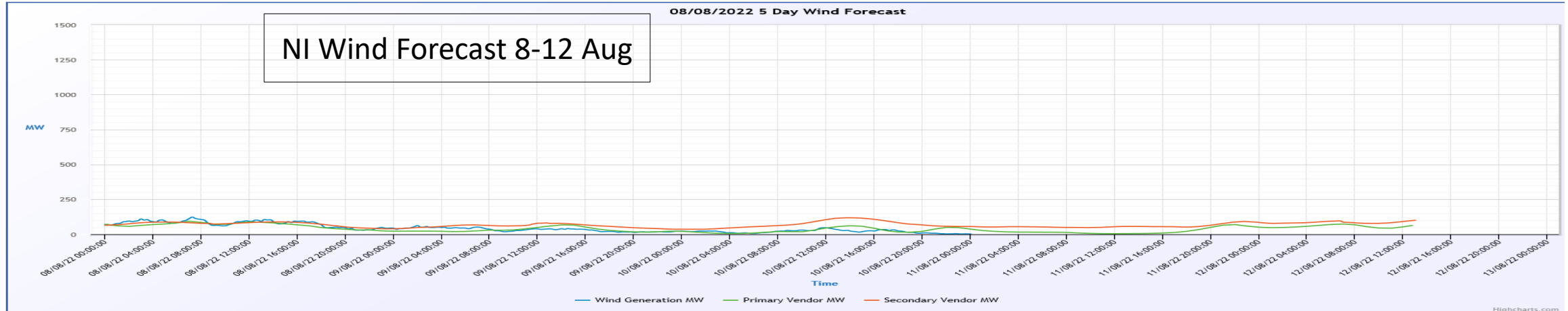
# System Operator Update – September 2022

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## Overview

- 5 Amber Alerts Issued since last MOUG on the 26th of May
  - 2 in July
  - 3 in August
- Continued High Conventional Generation Forced Outage Rate
- Planned and Forced Interconnector Outages
- Very low Wind Availability in IE and NI over the 2 months
- High Temperatures resulted in high air conditioning load and reduced ambient availability of Generators
  - Very Low Hydro Availability

# System Alerts w/c 8<sup>th</sup> August 2022



# IE System Alert of 9 August

## Unit availability

- circa 2.2 GW in total on scheduled or forced outage (circa **35%**)
- Very low/zero wind in NI and IE
- Reduced availability of various conventional generators due to high ambient temperatures and other plant issues
- Net Transfer Capacity on EWIC and Moyle set to 0 MW in export direction from 08:00am until 22:00
- >2000 MWh Traded on EWIC for Security Reasons

## Event Trigger

- Loss of EWIC at 13:40
- IE Alert issued 13:42
- IE Alert removed 22:35

## Peak

Peak demand IE: 4050 MW

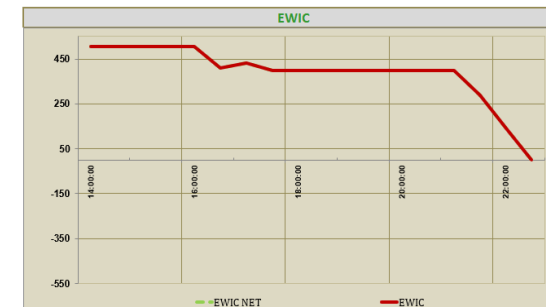
Wind generation IE: <50 MW

All units in IE & NI dispatched

All IE DSUs dispatched; availability at **c. 150 MW**

Limited support available from SONI owing to planned outage of one pole of the Moyle interconnector. Maximum flows from NI to IE restricted to **c. 300 MW**.

Emergency State in IE narrowly avoided



# IE System Alert of 10 August

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## Unit availability

- Generation portfolio remains largely unchanged (circa **35% unavailable**)
  - ED1 & MP3 Returned at reduced output
- Very low/zero wind in NI and IE
- Reduced availability of various conventional generators due to increased high ambient temperatures and other plant issues
- Net Transfer Capacity on Moyle set to 0 MW in export direction from 07:00am until 23:00, EWIC was still unavailable

## Event Trigger

- IE Alert issued 07:30
- IE Alert Ended 20:30

## Peak

Peak demand IE: 4050 MW

Wind generation IE: <100 MW

All IE DSUs dispatched; availability at **c. 150 MW**

Measures Taken to Increase the Ability for N-S Support



# Q&A

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# Close

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- SEMO Website: <http://www.sem-o.com/>
- Semopx Website: <http://www.semopx.com/>
- Queries: [info@sem-o.com](mailto:info@sem-o.com); [info@semopx.com](mailto:info@semopx.com)
- Capacity Market: [CapacityMarket@sem-o.com](mailto:CapacityMarket@sem-o.com)

*Thank you for your attendance.*