

# Market Operator User Group

28<sup>th</sup> January 2021

# Agenda

Item	Presenter
<b>Welcome</b>	<b>Anne Fitzgerald</b>
Release Program Update	Eamon Garrigan
Market Development Roadmap	Eamon Garrigan
Ex-Ante Markets	Liam McAllister, Michael Atcheson
Post-Brexit Update	Michael Kelly
Repricing Update	Michael Atcheson
Settlements Update	Sean O'Rourke
System Operator insights	Diarmaid Gillespie, Martin McCarthy
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# Release Program Update

Type	Release G Summary Participant Effecting	Business Area	System
CR	CR-072: Clarification to Intra-Day Quantity and Payment	Settlement	CSB
CR	CR-081: Amendment of conditions in which the Market Backup Price is used (MOD_03_19)	Trading/Pricing	RTPIMB
CR	CR-126: Configuration of Variable Market Operator Price to apply on a Tariff Year basis, not Calendar Year	Settlement	CSB
CR	CR-158: Repricing and relationship with Instruction Profiling	Trading/Pricing	RTPIMB
CR	CR-129: Correction of QUNDELOTOL calculations	Settlement	CSB
CR	CR-119: Changing Day Ahead Difference Quantity to Day Ahead Trade Quantity Within Day Charge Calculations	Settlement	CSB
CR	CR-088: Changes to configuration of FX Rates	Settlement	CSB
CR	CR-079: Registered Capacity Report Amendments	General/Other	Reports

Title	Delivery Schedule											Update	
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		
ABB Release G		Design		Build / FAT				SIT/UAT				★	<ul style="list-style-type: none"> <li>FAT test review and defect test analysis in progress.</li> <li>Test scripting in progress</li> </ul>
ABB Release H (Scope Open)			Scoping		Design				Build / FAT				<ul style="list-style-type: none"> <li>CRs under development</li> </ul>

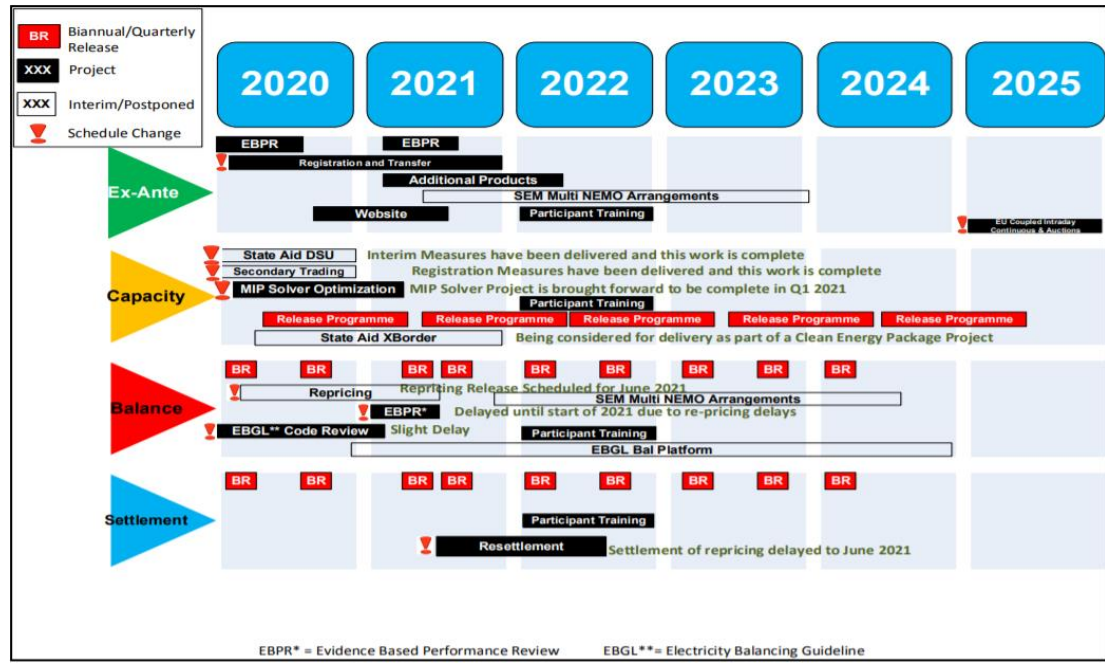
## Release G (Scheduled for June '21)

- 8 Change Requests
- 18 Defects
- 10 items from Known Issues Report to be included
- High Level Impact Assessment For Release G will be published in advance

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# Market Development Roadmap



Feedback from Market Participants on this document has been extended to **5pm on 1st February 2021** and should be sent via email to [info@sem-o.com](mailto:info@sem-o.com) using the subject Market Development Roadmap

EirGrid Group is currently developing an integrated all-island vision of the 2030 power system called **'Shaping our electricity future'** spanning three dimensions of the all-island electricity system: networks, power system operation and electricity markets.

In 2021, we will:

- conduct a large-scale public consultation and engagement programme (commencing in Q1 2021) on our draft 'Shaping our electricity future' vision. This will act as a framework for an informed discussion on the island of Ireland; and
- following the analysis of the feedback received from stakeholders, a final pathway to deliver on this ambition will be published. This will set out what is required to deliver a reliable and efficient power system and wholesale electricity market in a future with significant levels of generation from renewable sources.

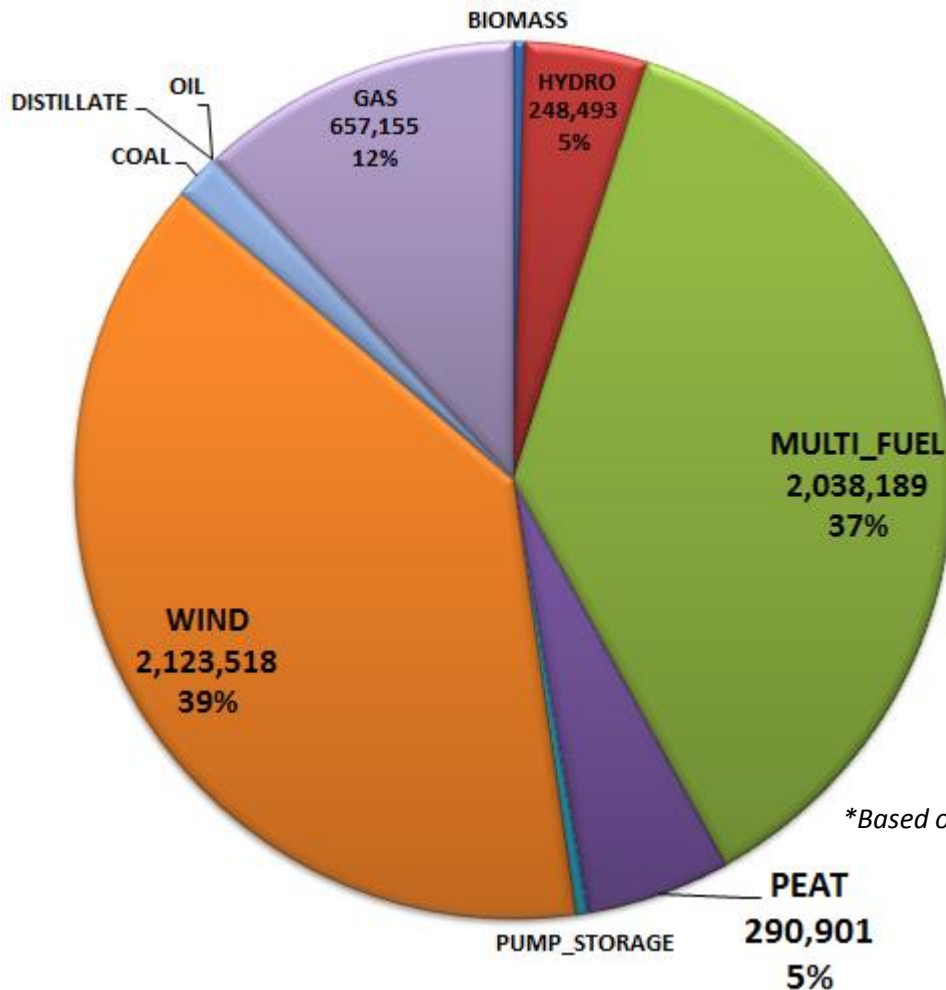
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# Ex-Ante Markets

- Volumes and Fuel Mix Nov - Dec 2020

*\*Using approx. prices and fuel type breakdowns*



*\*Based on Generator DAM sell's by Fuel Type*

	Value	% of DAM
DAM	€391,473,489	
IDA1	€33,520,452	8.56%
IDA2	€16,223,941	4.14%
IDA3	€5,023,771	1.28%
IDC	€382,806	0.10%



## Ex-Ante Markets - Post-Brexit

- **Post-Brexit processes working well**
- **Auctions running on time, without issues**
- **Auction Volumes are healthy**
- **Generated Auction Prices are as expected, given the challenging fundamentals**

# Post-Brexit How are Interconnectors Scheduled ?

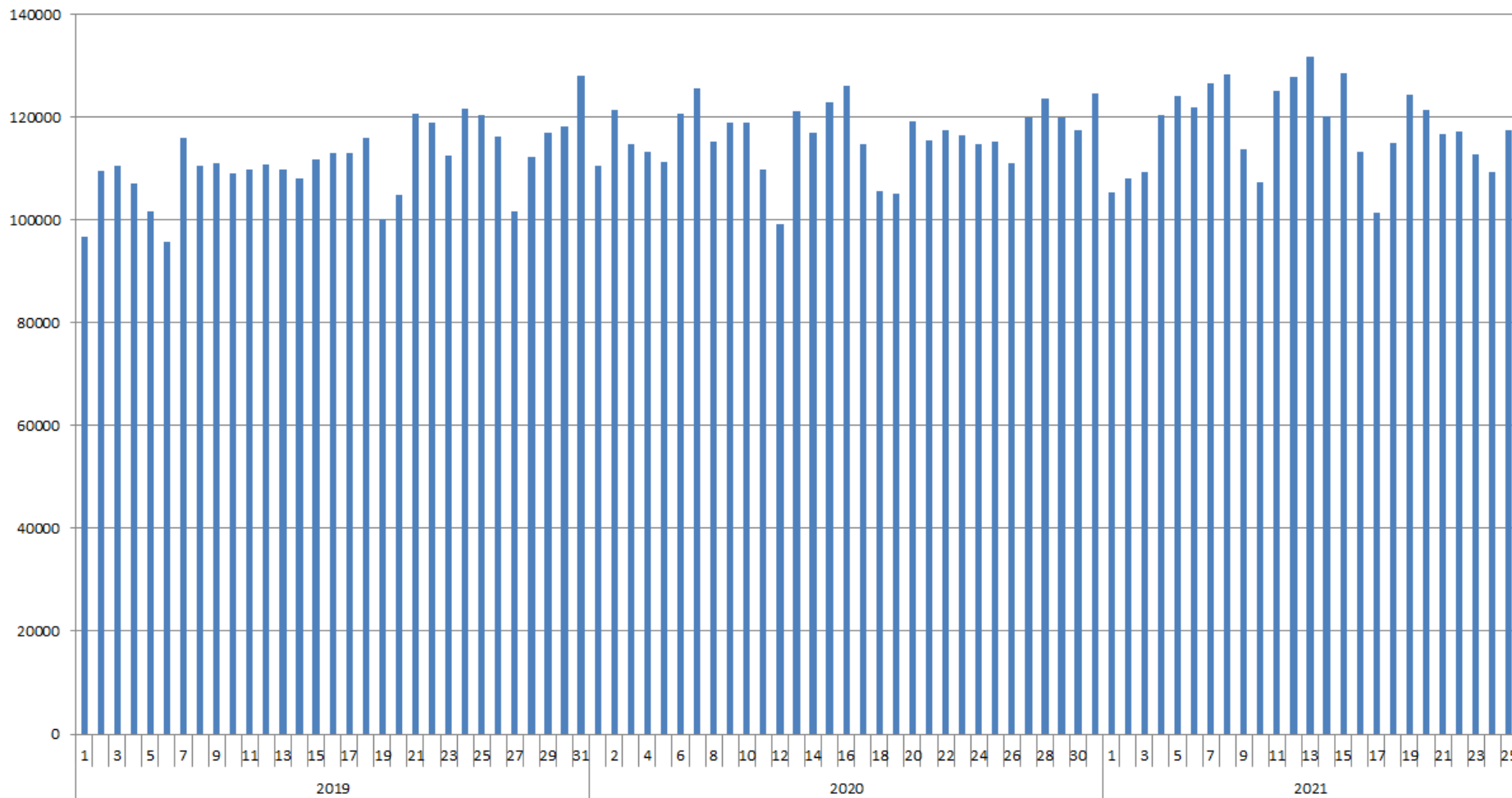


**We Export on INTC's when our Auction Prices are cheaper than GB's**



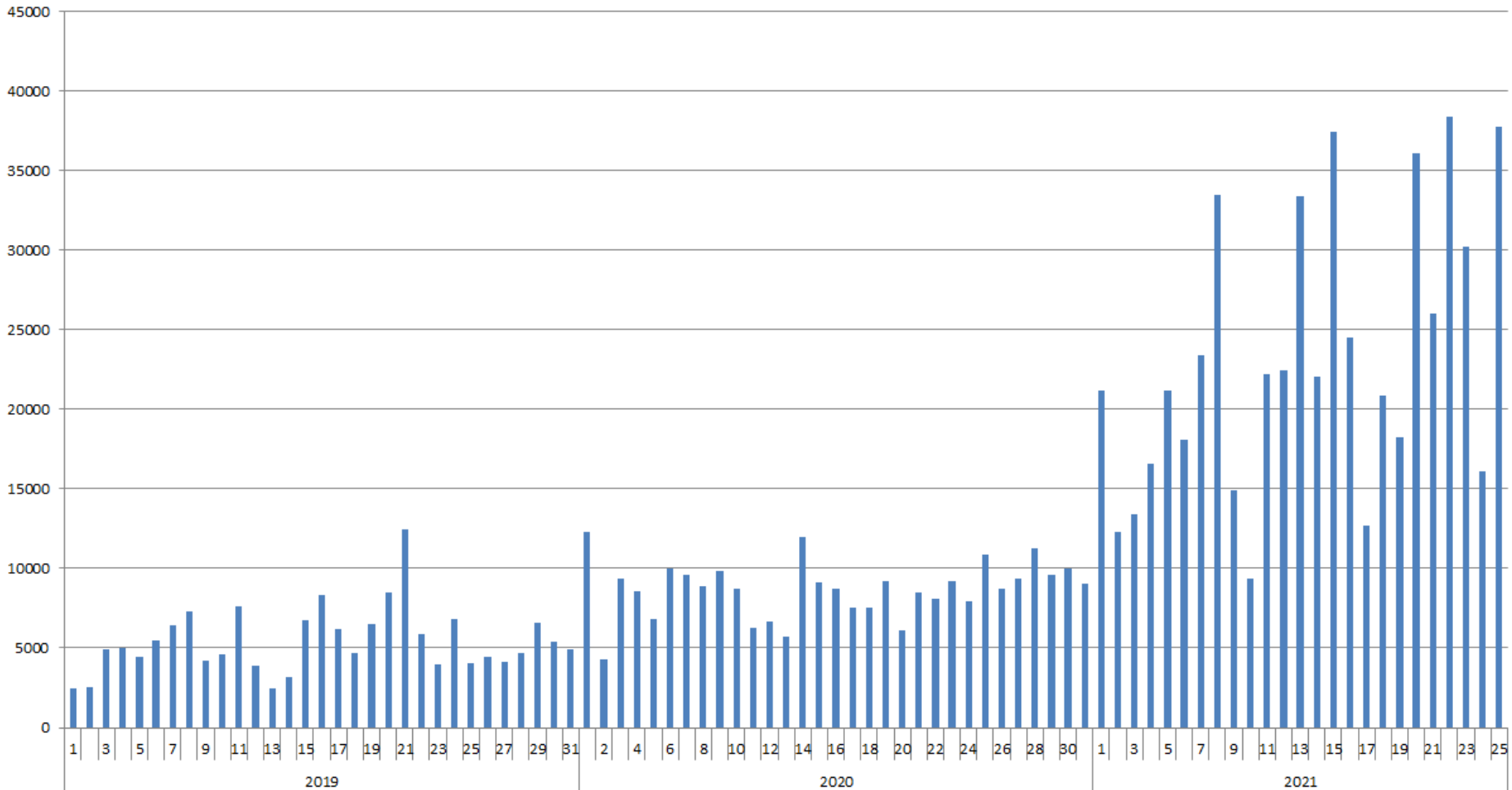
# How have DAM Auction Volumes held up post Brexit?

DAM

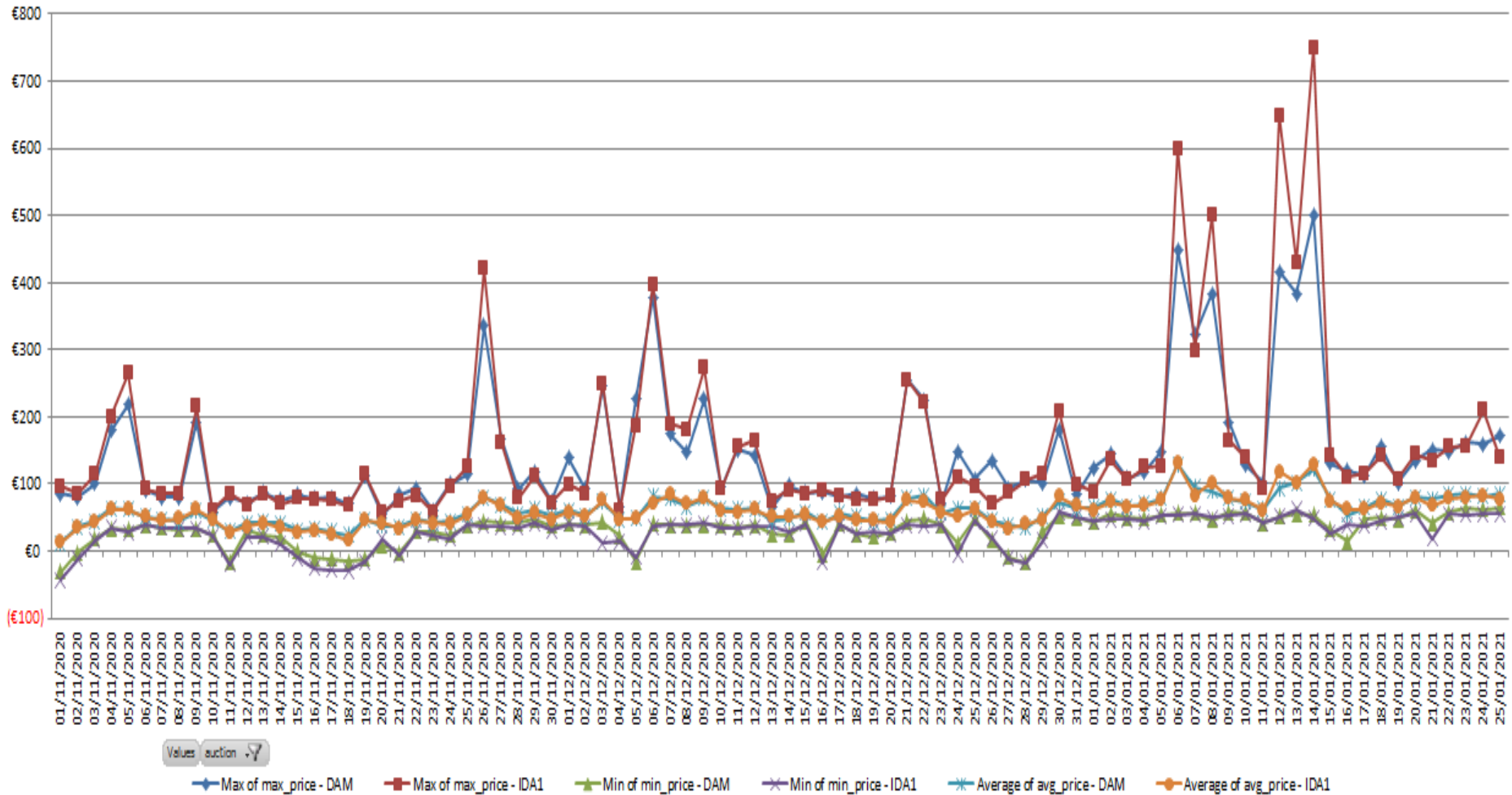


# And IDA's Coupled Volumes?

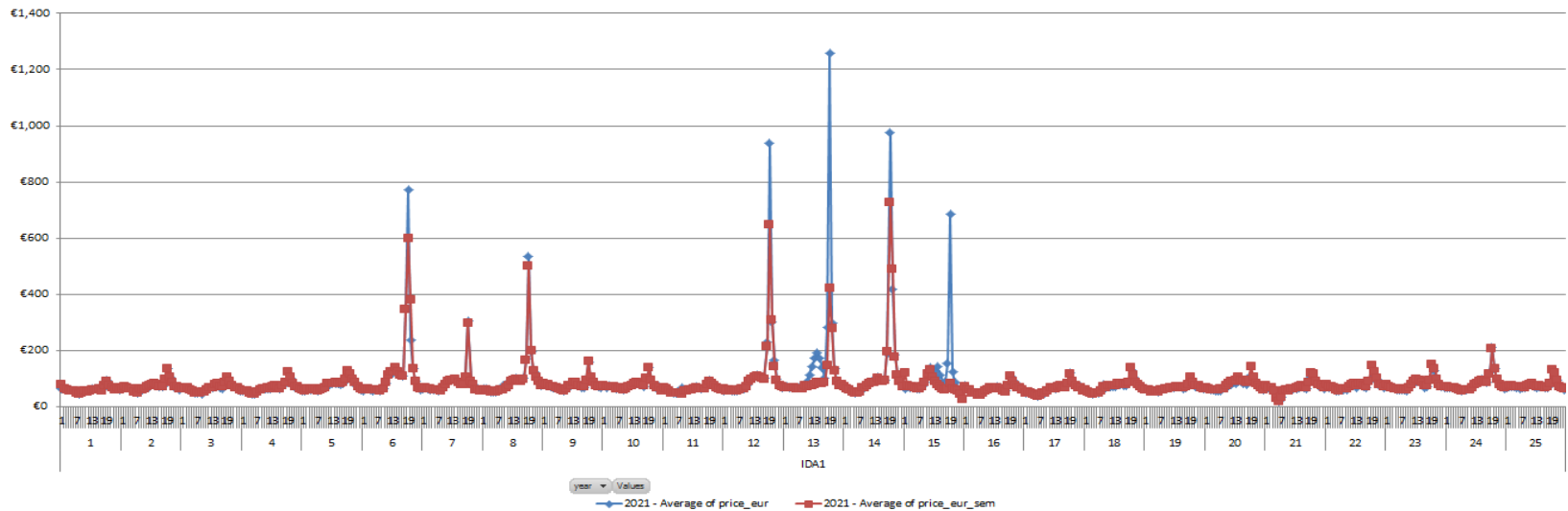
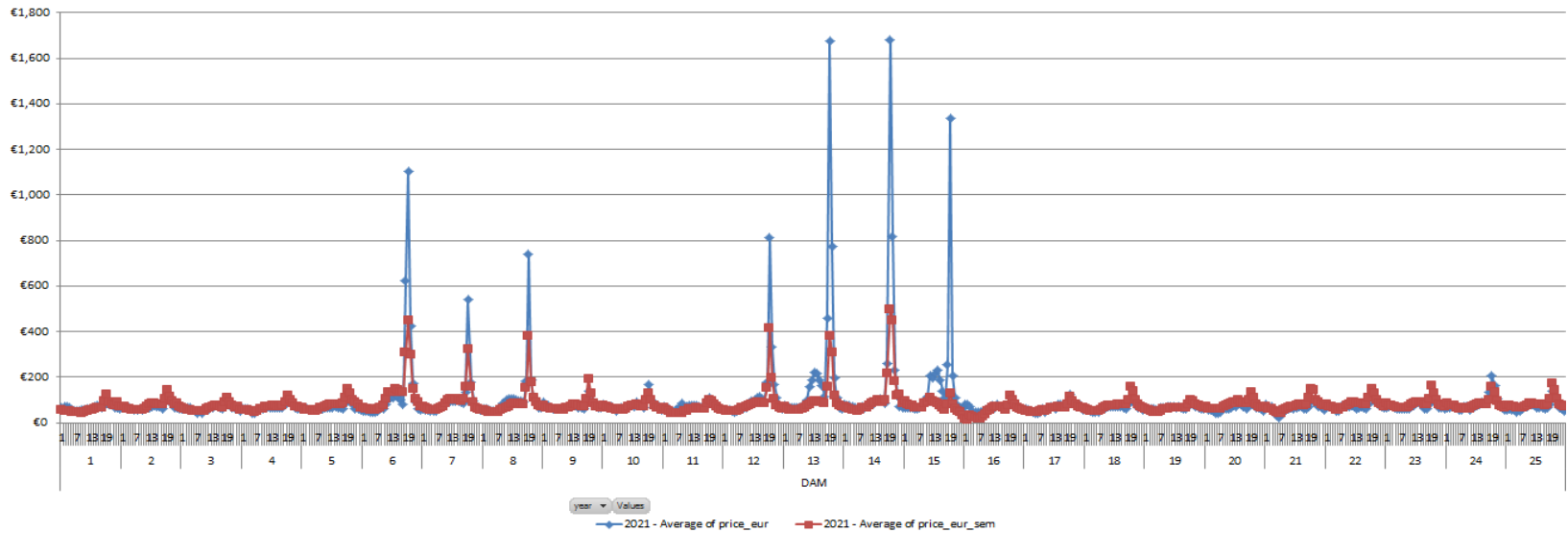
## IDA1



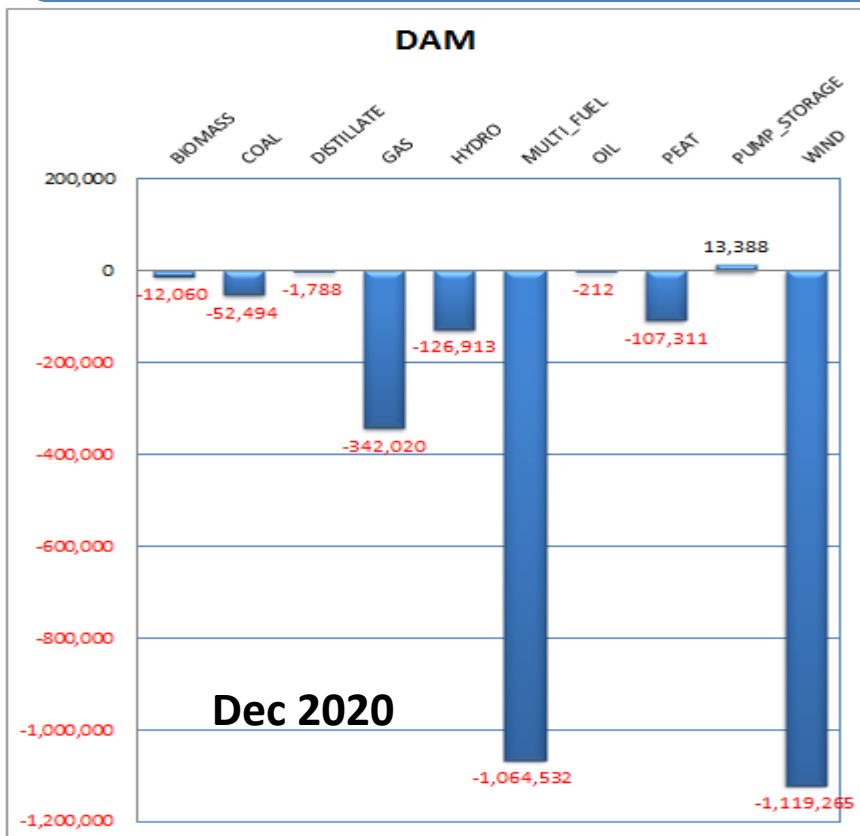
# High Prices over the Peak



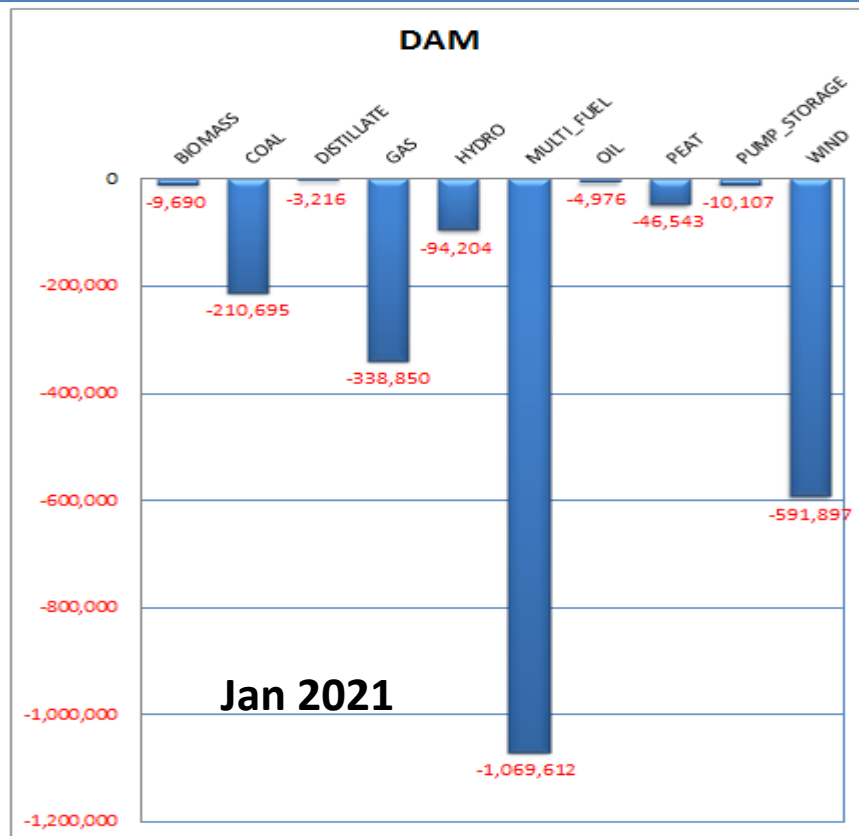
# What's Changed? SEM-GB Price Spread – INTC's No Help!!



# What has Changed? Are Non-Renewables driving INTC's?



	DAM	IDA1	IDA2
BIOMASS	-12,060	-89	4
COAL	-52,494	-329	-452
DISTILLATE	-1,788	-53	133
GAS	-342,020	-7,613	-979
HYDRO	-126,913	6,764	314
MULTI_FUEL	-1,064,532	-80,415	-21,415
OIL	-212	-67	0
PEAT	-107,311	1,438	1,323
PUMP_STORAGE	13,388	4,778	-18,892
WIND	-1,119,265	-10,767	-15,438
<b>Grand Total</b>	<b>-2,813,207</b>	<b>-86,353</b>	<b>-55,404</b>

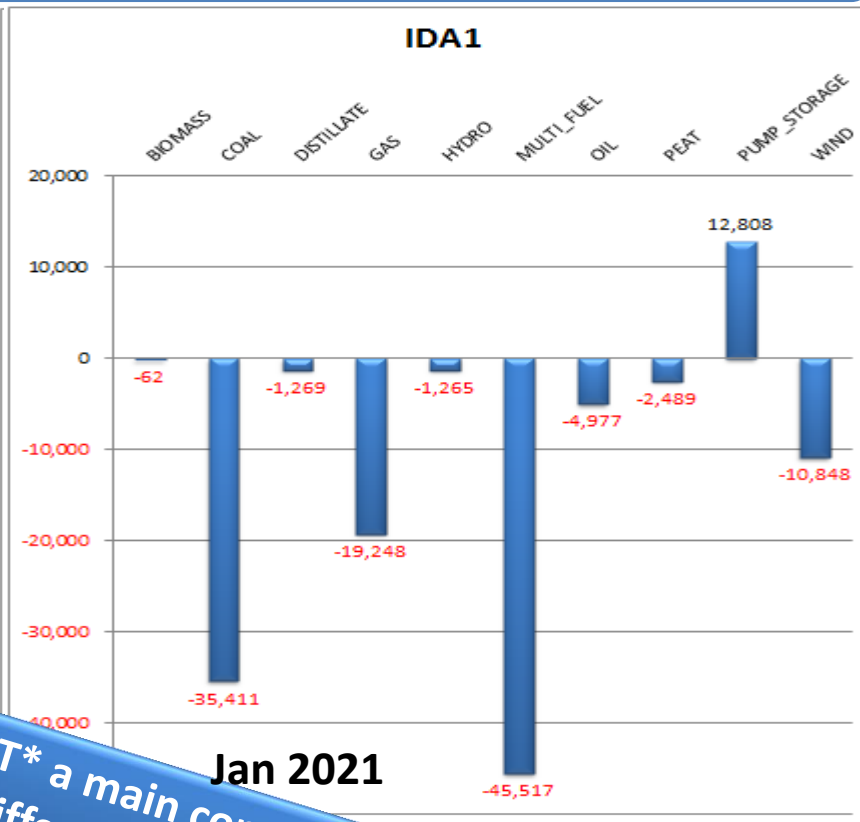
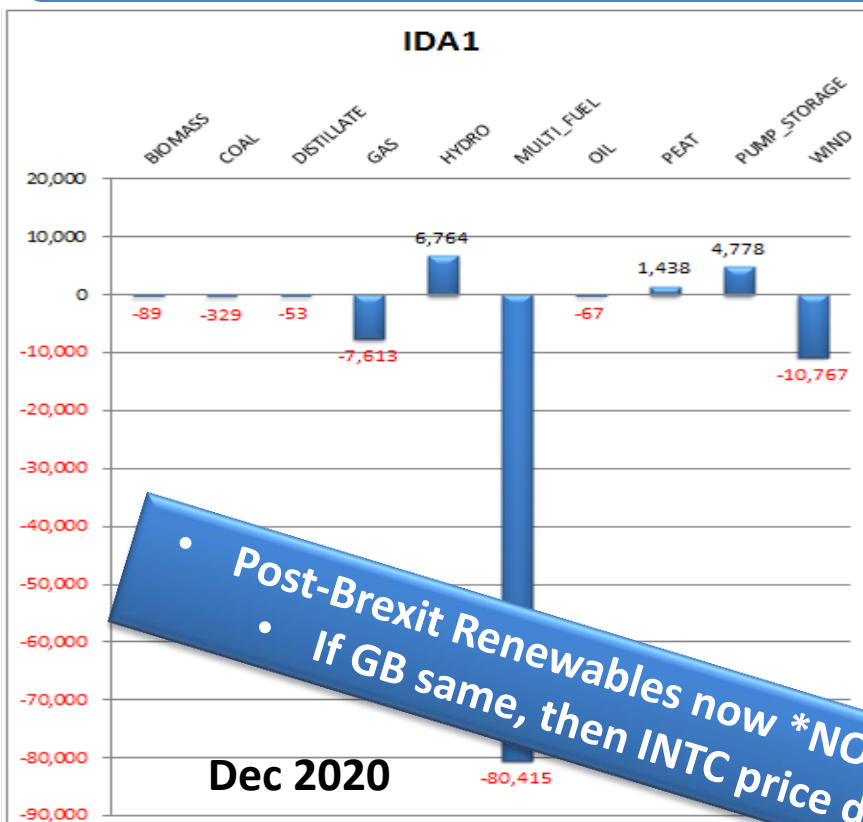


	DAM	IDA1	IDA2
BIOMASS	-9,690	-62	4
COAL	-210,695	-35,411	-5,386
DISTILLATE	-3,216	-1,269	-490
GAS	-338,850	-19,248	-1,400
HYDRO	-94,204	-1,265	-502
MULTI_FUEL	-1,069,612	-45,517	-9,950
OIL	-4,976	-4,977	-434
PEAT	-46,543	-2,489	-761
PUMP_STORAGE	-10,107	12,808	-12,678
WIND	-591,897	-10,848	-6,258
<b>Grand Total</b>	<b>-2,379,789</b>	<b>-108,279</b>	<b>-37,855</b>

Single Electricity Market Operator

\* Post Brexit Renewables Remain Major Constituent in DAM Auctions

# What has Changed? Are Non-Renewables driving INTC's?



• Post-Brexit Renewables now \*NOT\* a main constituent in Coupled Auctions  
 • If GB same, then INTC price differential less ~ less utilised INTC's ?

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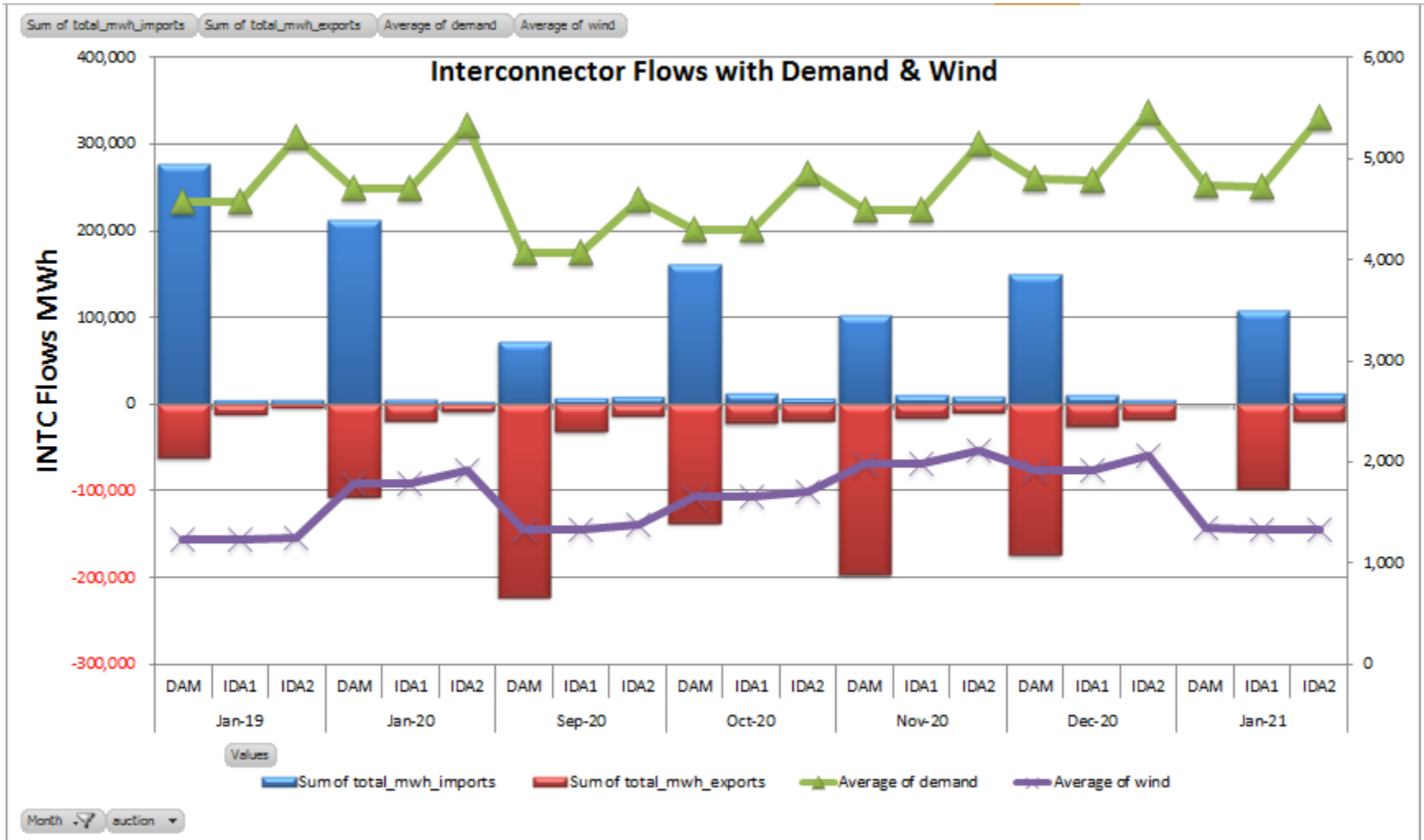
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Single Electricity Market Operator

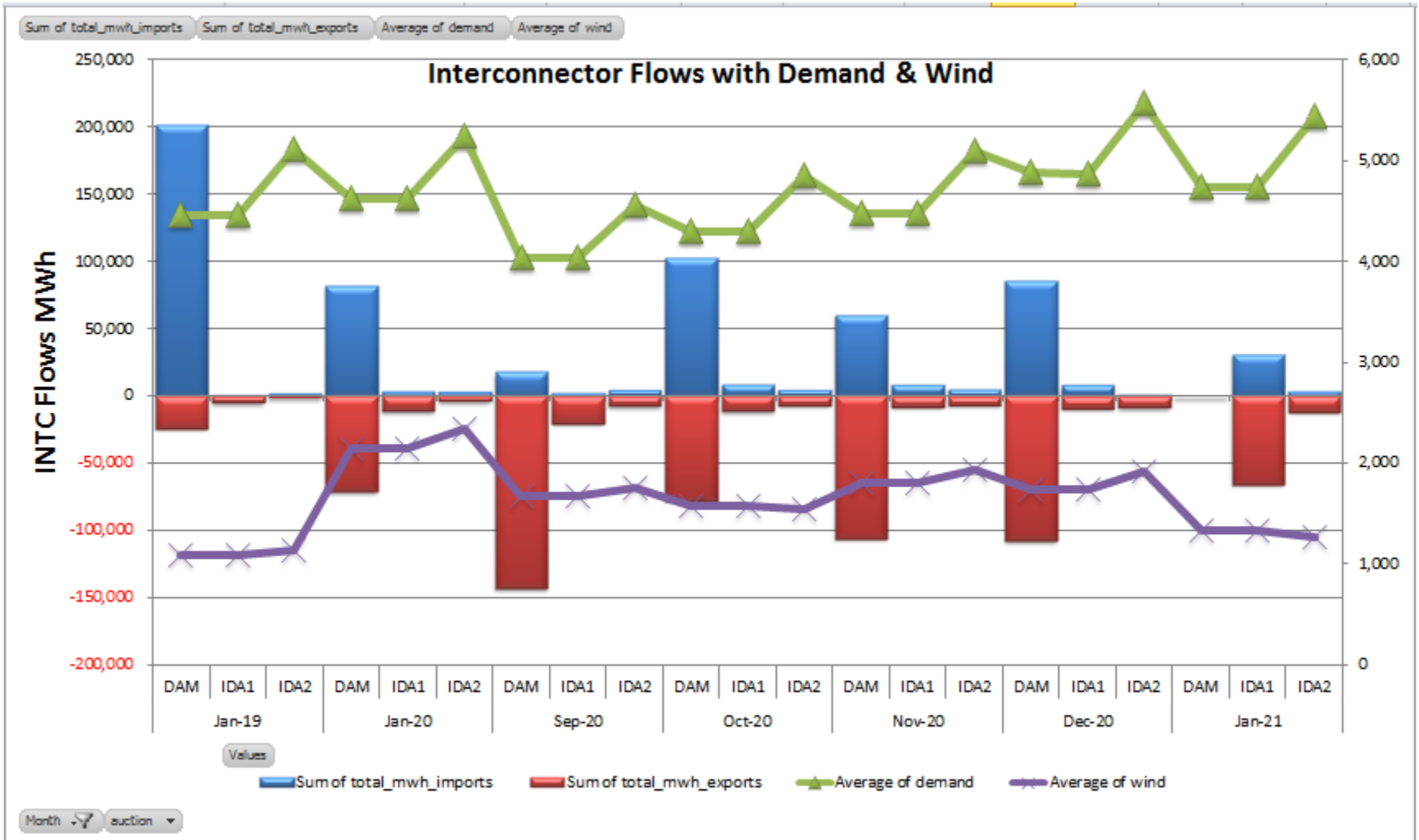
\*Maybe - Too Early to tell ...



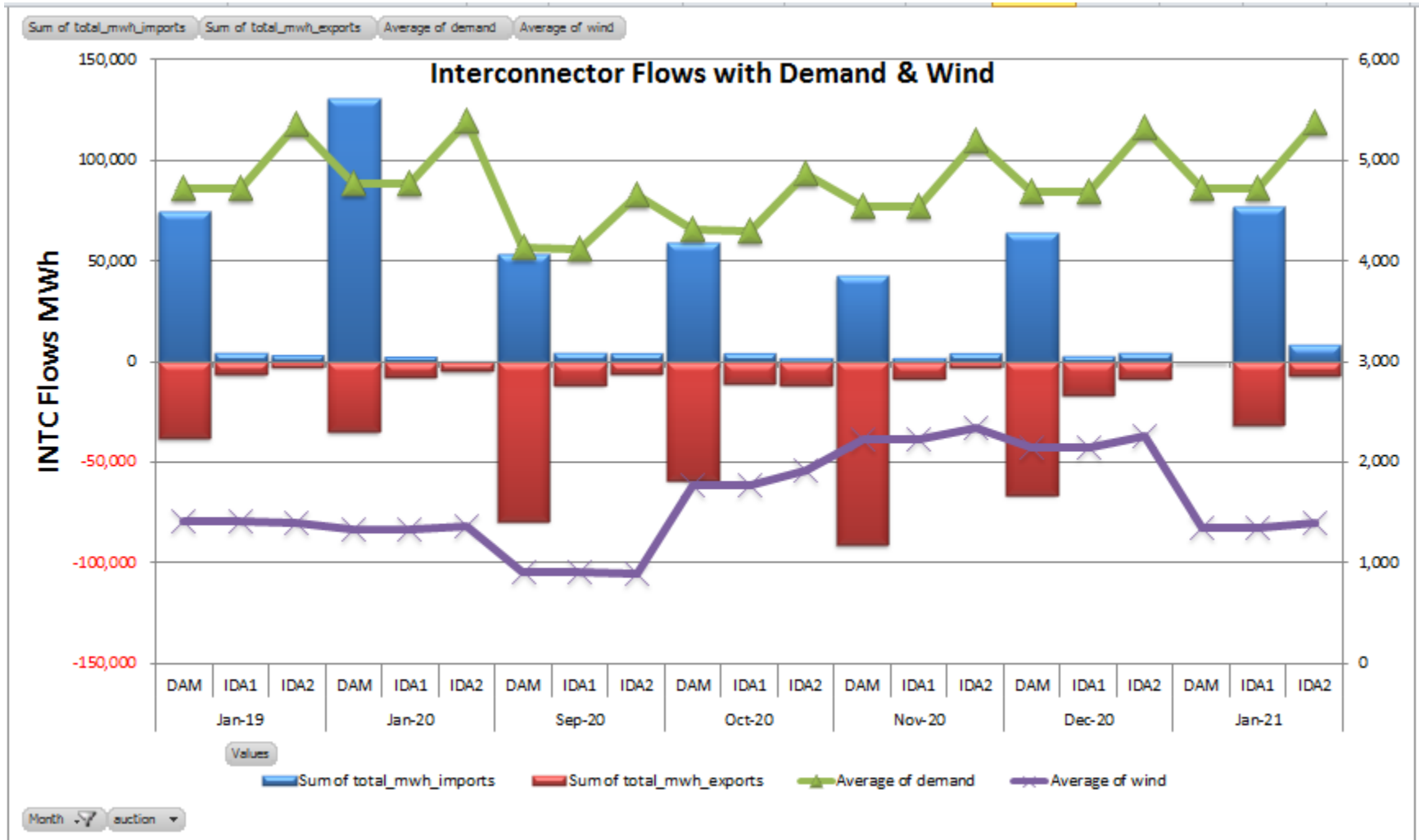
# Ex-ante Interconnector Flow Pre/Post Brexit Comparison



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# Ex-ante Interconnector Flow Pre/Post Brexit Comparison



- Next 11 days of Brexit (Day 15-25)

- More time (data) needed to observe developing patterns

# Ex-Ante Market Analysis

- **In Summary**

- ✓ Simple Look Back Analysis located on SEMOpx website here :

- ✓ [https://www.semopx.com/documents/general-publications/lookback\\_mkt.xlsx](https://www.semopx.com/documents/general-publications/lookback_mkt.xlsx)

# ETS Releases

Version	Content	Client	Impact	Timeline
V3.5	<ul style="list-style-type: none"><li>• Changing the certificate handling in ETS (Enhancement on API)</li><li>• Change in the handling of the cypher suite admission (Internal enhancement for API connections TSL)</li></ul>	New client	Not-upgradable	Q1 2021

# ETS Maintenance Windows

Date & time	Impact	Reason	Communication
12/01/2021 18:40 to 21:15	ETS not accessible	Monthly Maintenance	ETS chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/02/2021	ETS not accessible	Monthly Maintenance	ETS chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/03/2021	ETS not accessible	Monthly Maintenance	ETS 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 IST every 2<sup>nd</sup> Tuesday of the Month.

# M7 Releases

Version	Content	Impact	Timeline
V6.11	Release notes / Impact to be sent.	No information yet	Q2 2021

# M7 Maintenance Windows

Date & time	Impact	Reason	Communication
12/01/2021 19:45 - 23:00	Maintenance	DBAG, EPEX & ECC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/02/2021	Maintenance	TBC (ECC)	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)
09/03/2021	Maintenance	TBC	M7 chat message (1 hour before the maintenance) + OMM message (email sent a week in advance and on the same morning)

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# Upcoming Training Sessions

Submission on Behalf of Tool training session:

- 16th February 2021

Communication issued out on 27th January 2021 outlining the training session overview and registration requirements

Decoupling training simulation:

- 3rd March 2021

Information package shall be provided in due course

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# Trading with GB post-Brexit

## Energy Cross-Border Trading

# Agenda

- Position of SEM following the draft EU-UK Trade and Cooperation Agreement
- New market trading options between the SEM Great Britain (SEM-GB)

# BREXIT and the challenge for SEM



# So where are we now...?

The Single Electricity Market (SEM) **will continue to operate as an all-island market**

EU energy law (Clean Energy Package, Network Codes, REMIT, Transparency Reg) still apply in Northern Ireland

A '*Central Scenario*' developed in 2020 & in line with previous communications from both the EU and UK regarding the arrangements for the Single Electricity Market (SEM) and its coupling with the GB and EU Internal Energy Markets is now in place, which includes:

***Interconnector Forwards market:*** No longer any forwards financial transmission rights products available

***Day-ahead market:*** An all-island local day-ahead market operating on an isolated basis using the EUPHEMIA platform; i.e. no longer any day-ahead cross-border trade

***Intraday market:*** Continuation as per existing Intraday arrangements for trade between GB-SEM (outside EU intraday arrangements)

# EU-UK Trading and Cooperation Agreement (TCA)

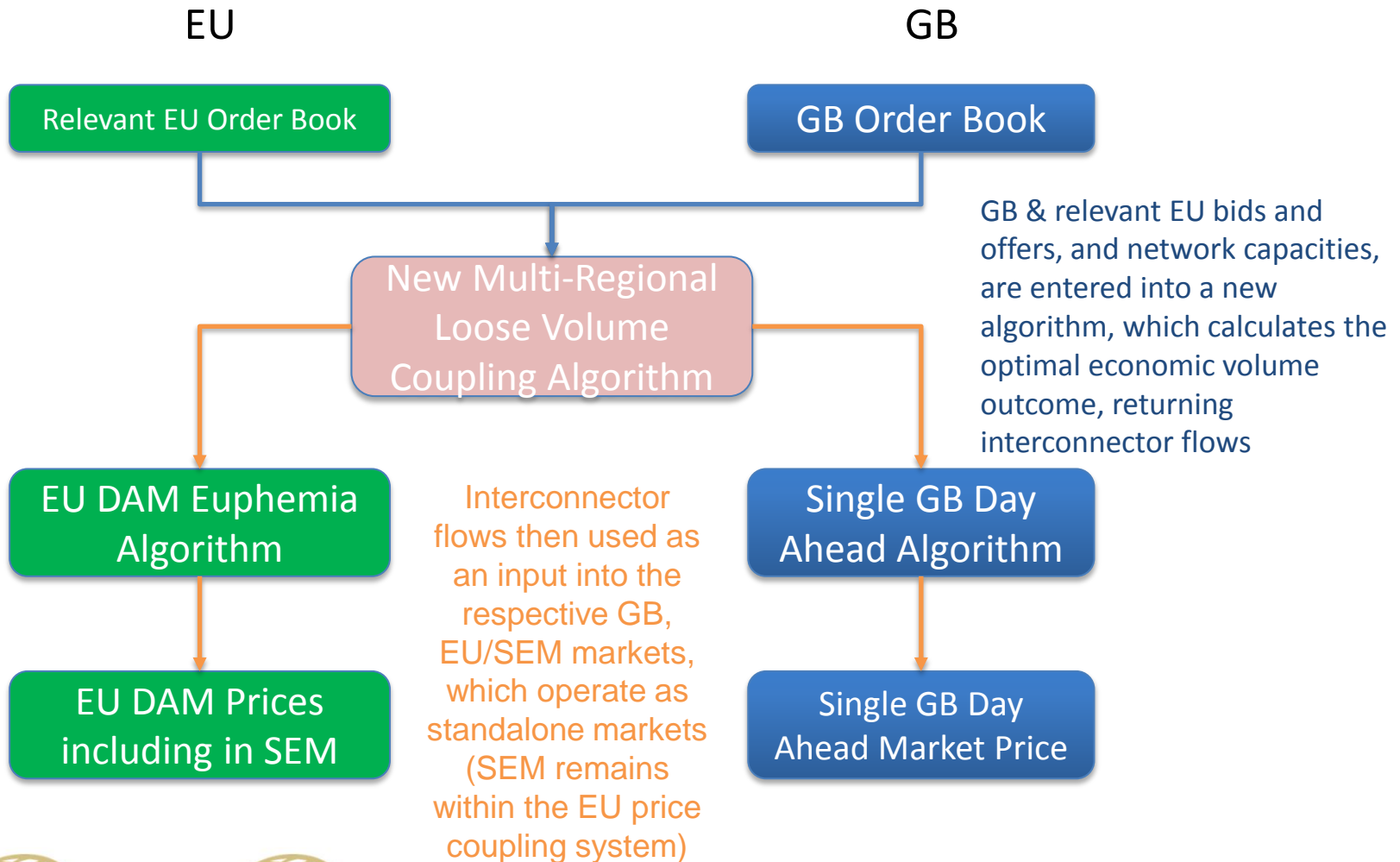
- Specialised Committee on Energy will ensure that TSOs develop technical procedures for DA trading. It may take decisions itself if it doesn't recommend implementation of TSOs' proposals
- DA trading to be based on multi-region loose volume coupling, calculating net positions between UK and directly connected Bidding Zones (SEM, FR, BE, NL) using:
  - commercial DA bids/offers from UK and SEM, FR, BE, NL;
  - network capacity data, under agreed procedures;
  - data on expected commercial flows between SEM, FR, BE, NL and other EU BZs, as determined by EU TSOs; and
  - DC interconnector characteristics, including losses and ramping requirements.
- Market coupling function will provide reliable and repeatable results in time to use as inputs into each party's DA markets, using a distinct and separate algorithm from the algorithm used under CACM, and using only bids and offers from directly connected EU Bidding Zones.
- CBA and proposal 3 months; technical procedures within 10 months; entry into operation within 15 months
- Specialised Committee on Energy may recommend TSOs prepare technical procedures for other timeframes

# Multi-Regional Loose Volume Coupling

- IC flows determined by a new algorithm, determining interconnector volumes and not prices. SDAC auction then establishes the prices based on the volumes from the new algorithm. In GB, resulting IC flows are used in a second GB-only auction to determine prices.
- Continuation of intraday implicit auctions for cross-border trading between GB and SEM.
- FTRs based on DA prices from SDAC? GB prices and SEM prices may differ to what they would have been under price coupling.



# Loose Volume Coupling Potential Schematic



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# Repricing Update

## Market Message published 28/01/2021

This is an information notice that Balancing Market Repricing is due to commence. The first repricing publication is scheduled to take place on **Thursday, 4<sup>th</sup> February 2021**.

The **Repricing Participant Guide** and associated **Repricing Calendar** can be found here:

- [Repricing Participant Guide](#)
- [Repricing Calendar](#)

The Repricing Calendar has been updated to reflect the initial programme of work; up to the end of April 2021. As a reminder, further information notices on repricing will be communicated via the **Balancing Market Repricing distribution list**, only.

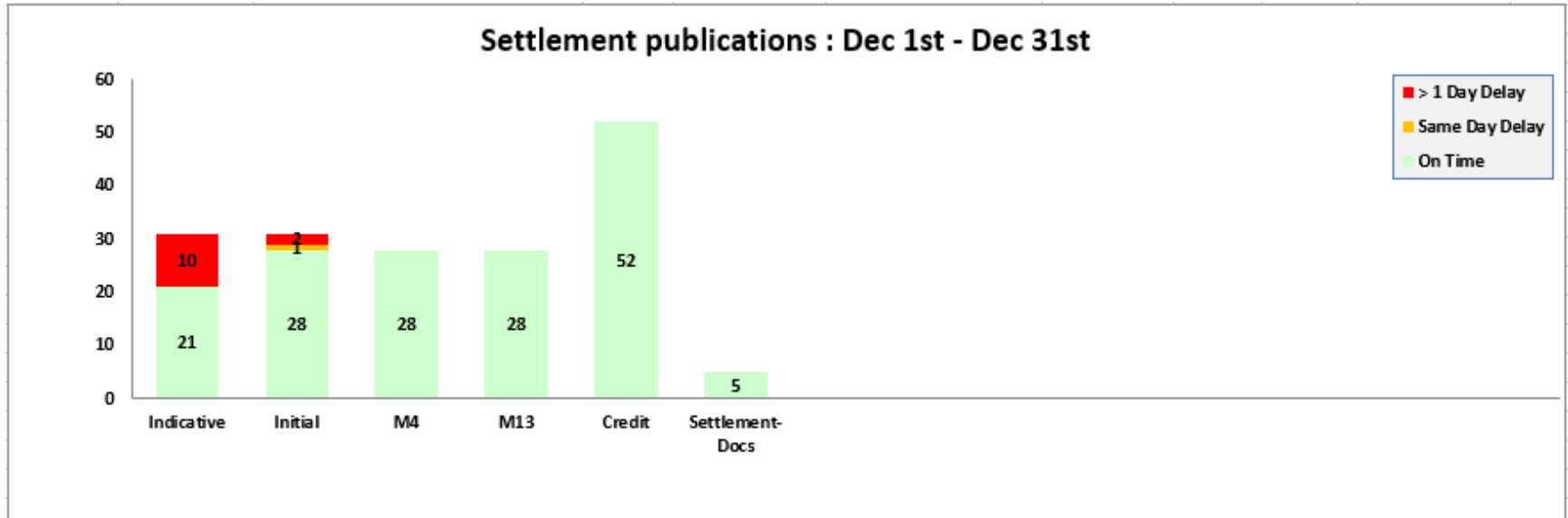
You may subscribe to this distribution list on the [SEMO Website](#).

Should you have any queries, please contact [info@sem-o.com](mailto:info@sem-o.com).

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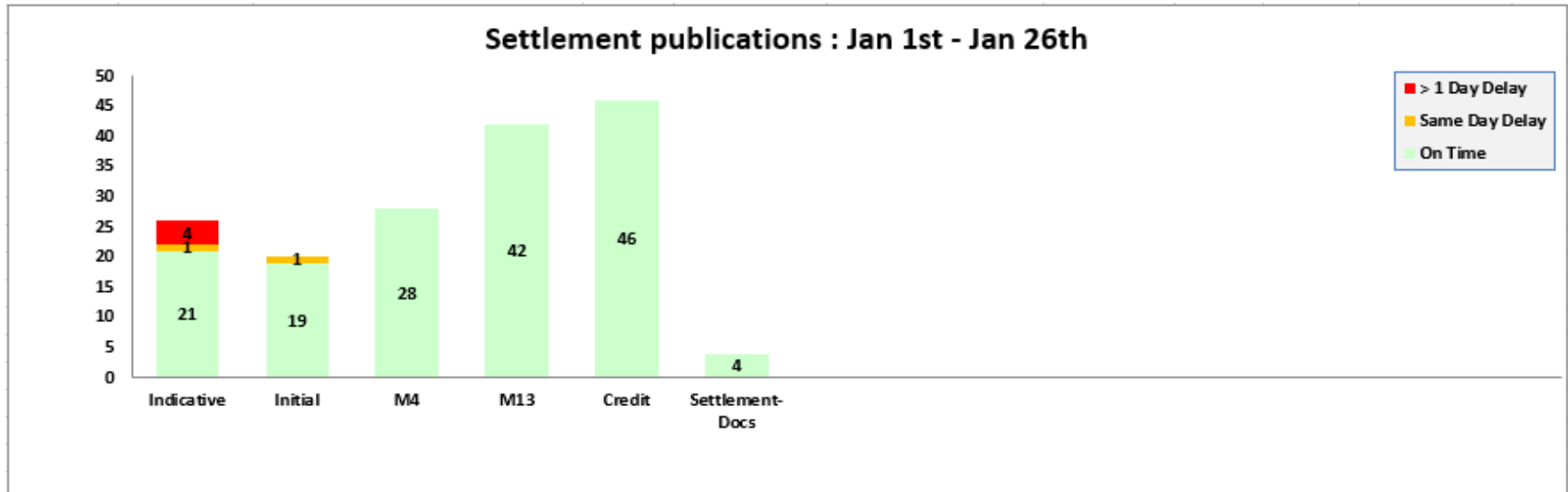
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# Settlement publications & timelines : Dec 2020



- **Indicative publications:** Delays due to DA/IDT trade import issues (4), Instruction profile process issues (3) and meter data delays (1).
- **Initial publications:** 2 delayed publications > 1 day in December were due to Instruction profile process issues.
- **M4 Resettlement:** M4 of Week 33 2020 delayed by one-week, double M4 issued on the 18<sup>th</sup>
- **M13 Resettlement:** 2 single M13 weeks & 1 double M13 published in December
- **Settlement Documents:** Extra Settlement Document date in Dec (2<sup>nd</sup>) due to delayed SD Nov 27<sup>th</sup> – KIR ID #199,930

# Settlement publications & timelines : Jan 2021 to date



- **Indicative publications:** Delays due to MDP metered data delays (4) and impact of an internal system outage (1)
- **Initial publications:** 1 delayed publication (same day delay) due to additional analysis required
- **M4 Resettlement:** Published on time
- **M13 Resettlement:** Double M13 resettlement due to complete on 29/01/2021
- **Settlement Documents:** Published on time

## Settlements & Credit Processing : Other updates

- **Adhoc resettlement schedule update:** market message issued 20<sup>th</sup> January re: Adhoc processing & KIR ID 199107. Adhoc resettlement of Week 39, 2018 now scheduled to be included with Settlement Documents on Feb 12<sup>th</sup> 2021. Planned adhoc schedule on slide 40.
- **SMART metering release & cut-over schedule:** Impact to settlements processing on Monday, February 15<sup>th</sup>;
- No indicative settlements publications on Feb 15<sup>th</sup> , processing to occur on Feb 16<sup>th</sup> for indicative dates 12<sup>th</sup> – 15<sup>th</sup> Feb. Market message reminder will issue in advance.

# SEMO Resettlement plan – Jan 2021 update

M13 Double up completes

Begin ad-hoc resettlement – Sett Docs of Feb 12th

Release G (to include CR-158)

Calendar 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
M+4 Month	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21
M+13 Month	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 Month		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

Key Events:
M13 double up due for completion in Jan 2021
Planned start of ad-hoc resettlement in Feb 2021
Release G into production which includes CR 158 – June



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**System Operator Insights:  
January System Alerts & Interconnector Security Trades**



# System (Amber) Alert

**System Alert** - *Elevated risk of not being able to meet system demand and/or risk of operational security limits (frequency/voltage) being violated*

- Reserve capacity reduced by 20% for longer than 30 minutes
- Frequency outside Operational Limits for certain period
- Unresolved contingency which may lead to Operational Security Standards not being met
- Multiple contingencies probable due to storms
- **Jurisdictional Margin is such that the tripping of the largest infeed, would give rise to a reasonable possibility of failure to meet the System Demand**

# Interconnectors: Security Actions

## Market

- Market determines the power schedule for Moyle and EWIC.
- TSO should only change for system security / priority dispatch reasons

## TSO Trade

- EirGrid/SONI request a counter-trade to adjust the schedule for system security of priority dispatch purposes
  - Cross Border Balancing (CBB) or CTPT (Coordinated Third Party Trading)
- National Grid may reject

## EA

- EirGrid/SONI request '**Emergency Assistance**' (EA) - 200 MW on Moyle and 150 MW on EWIC available
- Used in extreme cases when one party foresees difficulty meeting demand – system must be in alert
- National Grid may reject or withdraw on system security grounds

## EI

- EirGrid/SONI invoke an '**Emergency Instruction**' (EI)
- Party experiences problems with system safety/security (load shedding imminent)
- Reduces the flow towards zero only (no additional import)

# ICs – System Peak Security Trades (to 19 Jan)

Date	17:30 Peak Values						EWIC Security Trades				Moyle Security Trades			
	EWIC IDA2 (MW)	Moyle IDA2 (MW)	IE Wind (MW)	NI Wind (MW)	IE Demand (MW)	NI Demand (MW)	Trade Volume (MWh)	Time Trade Executed	Trade Period	Trade above €500/MWh	Trade Volume (MWh)	Time Trade Executed	Trade Period	Trade above €500/MWh
06/01/2021	-314	-409	127	32	5225	1560	79	14:15	17:00- 18:00	YES	182	14:15	16:30- 18:00	YES
							267	16:23	16:30- 19:00	YES	366	16:14	16:30- 19:30	YES
07/01/2021	-103	-409	813	186	5127	1538					612	13:20	16:00- 18:30	YES
08/01/2021	-431	-409	804	29	5082	1478					327	15:30	16:00- 18:30	NO
12/01/2021	-526	-409	864	99	4974	1531					443	14:11	16:30- 18:30	YES
14/01/2021	-526	-409	629	114	4850	1473					538	15:16	15:30- 18:30	NO
19/01/2021	0	-17	2047	109	4930	1505					71	11:21	16:30- 17:30	NO

# AI System Alert – 6 January

## Events leading up to 6 January

- 31 Dec: NGENSO notify TSOs it is tight 5 & 7 January
- 4 Jan: NGENSO notify TSOs it is tight 6 – 8 January seeking assistance
- 5 Jan: NGENSO issue Electricity Market Notice (EMN)
- 5 Jan 18:00: IDA1 has 400 MW export on Moyle & 260 MW export on EWIC over peak
- 5 Jan 20:43: Market Notice issued by TSOs

## 6 January events

- 08:40: IDA2 has 400 MW export on Moyle & 300 MW export on EWIC over peak
- 12:00 CTPT Trade agreed in principle with NGENSO for 300 MW – not enough to avoid an alert
- 13:05 System Alert issued for IE & NI and Market Notice issued
- 16:15 NGENSO confirm further 300 MW trade possible; leaves EWIC at 0 MW & Moyle 100 MW export at peak
- 17:30 System Status
  - Demand: 5225 MW in IE, 1560 MW in NI
  - Generation Availability: ~5.7 GW in IE, ~1.9 GW in NI
  - Wind: 130 MW in IE, 30 MW in NI
  - All available units dispatched in IE & NI as per merit order
- 18:05 System Alerts IE & NI removed



# NI System Alert – 8 January

## 7 January

- 0730: NGESO notify TSOs it is tight 8 January
- 18:00: IDA1 has 400 MW export on Moyle & 228 MW export on EWIC over peak
- 20:05: NGESO issue Electricity Market Notice (EMN)

## 8 January events

- 08:40: IDA2 has 400 MW export on Moyle & 411 MW export on EWIC over peak
- 10:20: Market Notice issued by TSOs expecting IE & NI to be in alert that evening
- 13:45: System Alert NI issued
- 15:30 CBB Trade agreed with NGESO for 200 MW on Moyle (lifts IE from being in Alert at 16:00)
- 16:15 NGESO confirm further 300 MW trade possible; leaves EWIC at 0 MW & Moyle 100 MW export at peak
- 17:30 System Status
  - Demand: 5082 MW in IE, 1478 MW in NI
  - Generation Availability: ~5.4 GW in IE, ~1.7 GW in NI
  - Wind: 800 MW in IE, 30 MW in NI
  - All available units dispatched in IE & NI as per merit order
- 18:25 System Alert NI removed

# System Trials

- Negative Reserve (NR) Trial complete: NR moved from 150 MW to 50 MW
- 70% SNSP Trial commenced 15 January (3 month trial)



A screenshot of a control room display showing system parameters. The display is dark with yellow and red text. The parameters are:

<b>SNSP</b>	Lim: 70.0	70.0
<b>Wind %</b>		81.7 <sup>M</sup>
<b>Gas %</b>		15.2 <sup>M</sup>



# Scheduling & Dispatch Audit Report and Consultation

## System Operator Obligations:

- EirGrid TSO Licence Condition 10 A.9 and SONI TSO Licence Condition 22 A.9
  - “The Licensee shall arrange for the carrying out of a periodic audit of the scheduling and dispatch process, its operation and implementation in accordance with directions given to it by the RAs.....
  - The Licensee shall, where directed to do so by the Commission, implement the recommendations contained in any audit report.”
- Separate from the market code audits.

# Consultation: Scoping 2020 and 2021 Audits

- [Consultation Document](#)
- Reasonable Assurance Engagement (ISAE 3000)
  - Assurance Report and Approach Document
- Calendar year audit periods
- Proposed scope is in line with 2018/19.....

# Outcome of 2018/19 Audit

- [Assurance Report and 'Approach Document'](#)
- PwC's opinion:
  - *“Based on our procedures, in our opinion, in all material respects, The Transmission System Operators have complied with The Requirements as they relate to the specified elements of the scheduling and dispatch process during the 15 month period ended 31 December 2019.”*
- Additional testing and materiality assessments applied to a small number of evidence related issues.
- Auditor recommendations are being assessed.

# Scope of Audit Procedures

## Priority Dispatch

- Unit Status in MMS
- Dispatch Down

## Dispatch Instructions

- PN
- Unit Availability
- Outages
- Policy Parameters

## Merit Orders

- Dispatched
- TOD

## Operational Constraints

- Transparency
- MMS Settings

## Constraint Flagging

- Logical Test
- Transparency

## IT General Controls

- Programme Development
- Change Management
- Access

# Consultation: Scoping 2020 and 2021 Audits

- [Consultation Document](#)
- Open until Friday 12<sup>th</sup> February
- Queries and submissions:
  - [OpsCompliance@SONI.ltd.uk](mailto:OpsCompliance@SONI.ltd.uk) or
  - [OpsCompliance@EirGrid.com](mailto:OpsCompliance@EirGrid.com)

# Agenda

Item	Presenter
Welcome	Anne Fitzgerald
Release Program Update	Eamon Garrigan
Market Development Roadmap	Eamon Garrigan
Ex-Ante Markets	Liam McAllister, Michael Atcheson
Post-Brexit Update	Michael Kelly
Repricing Update	Michael Atcheson
Settlements Update	Sean O'Rourke
System Operator insights	Diarmaid Gillespie, Martin McCarthy
<b>Market Interface</b>	<b>Sinead Rafferty, Anne Fitzgerald, Claire Breslin</b>
Q&A	

# Balancing Market Registration

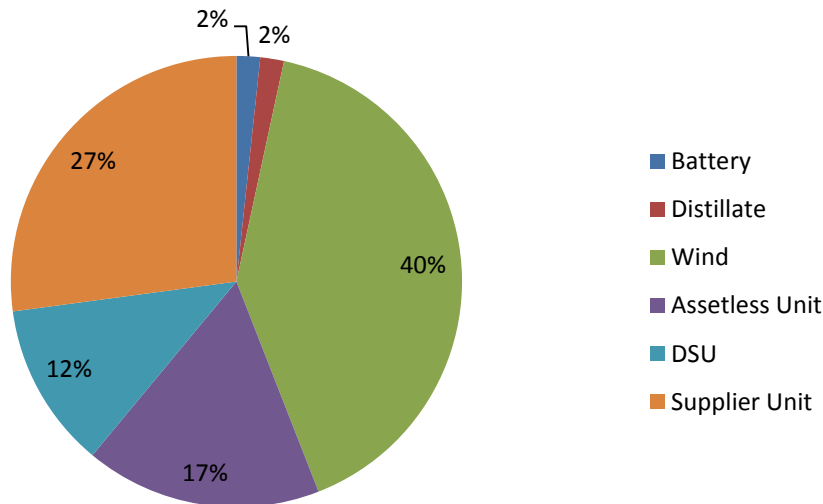
**01 January 2020 – 01 January 2021**

- **8** new Parties registered in the Balancing Market
- **59** Unit registrations (Generator Units, DSUs, Supplier Units and Assetless Units)
- **23** Unit deregistrations
- **73** Unit data changes (updates to registered capacity, Unit switch to controllable etc.)

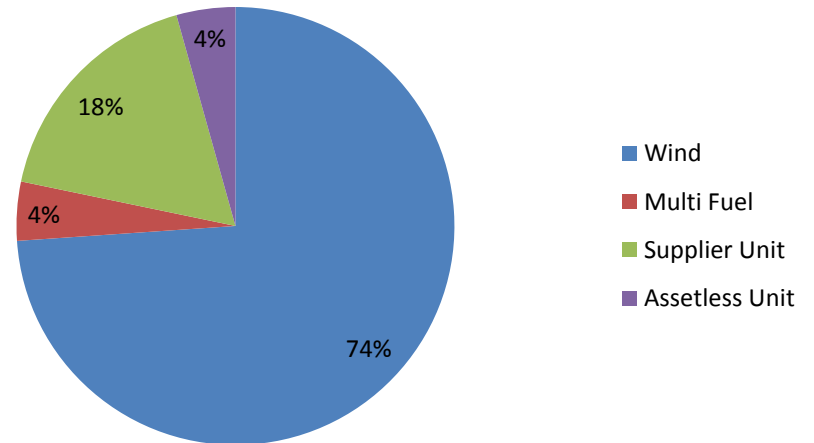
# Breakdown of Registrations & Deregistrations

01 January 2020 – 01 January 2021

Registered Units by Type

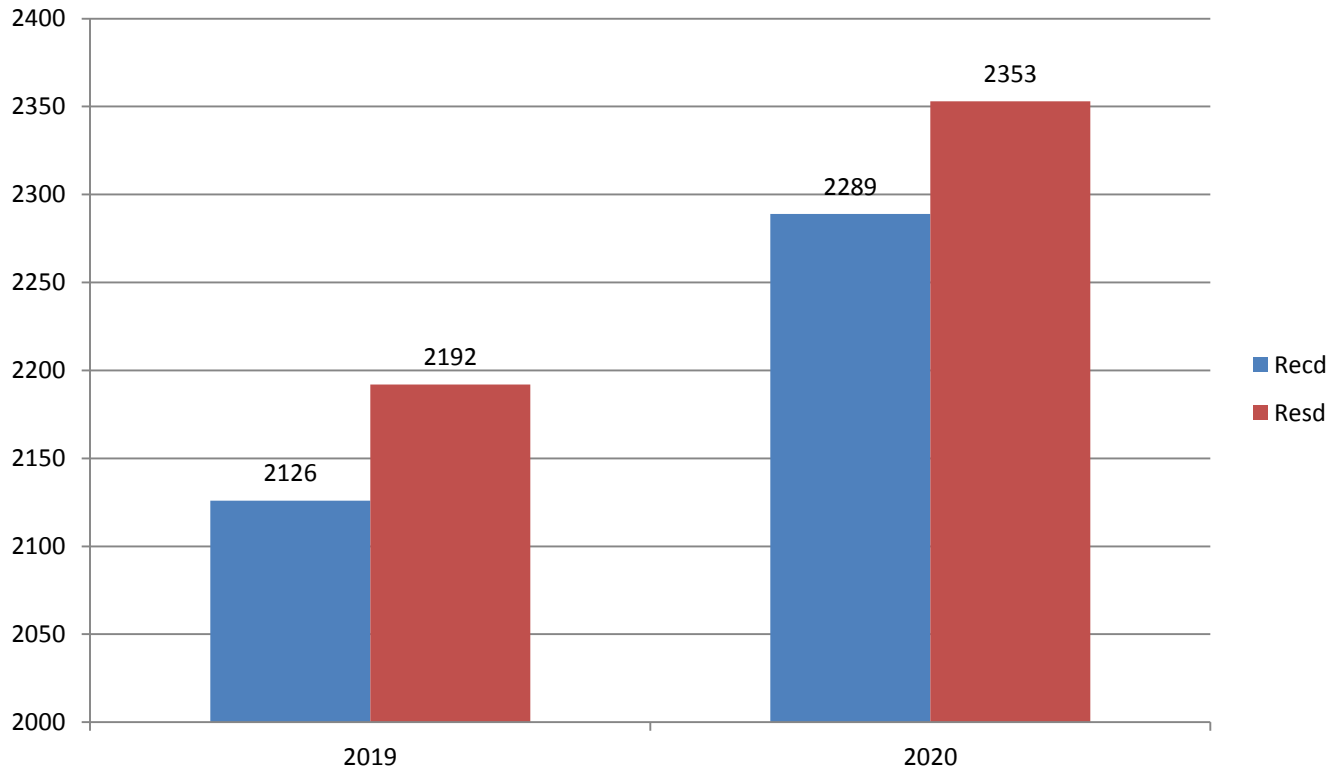


Deregistered Units by Type

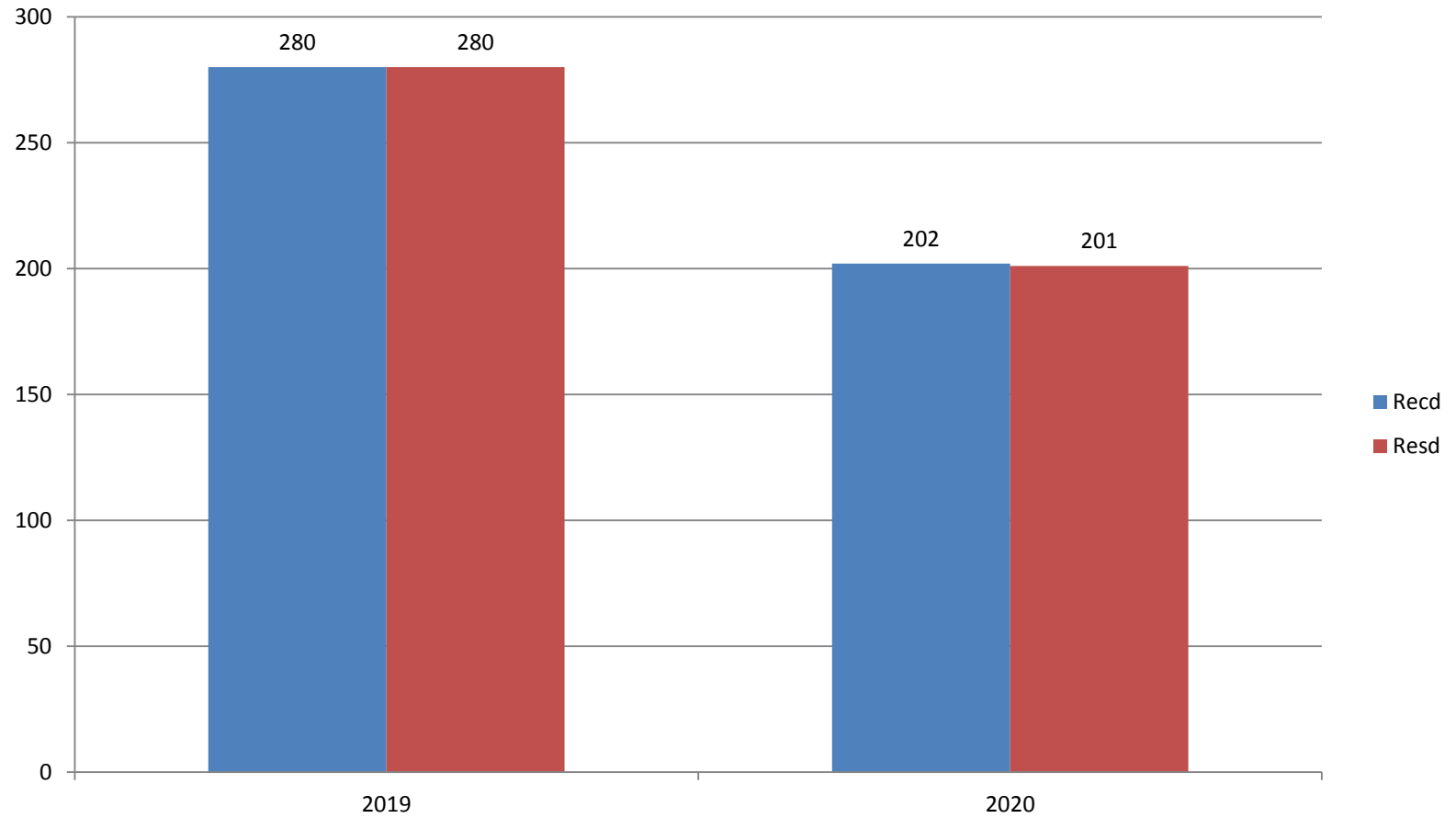




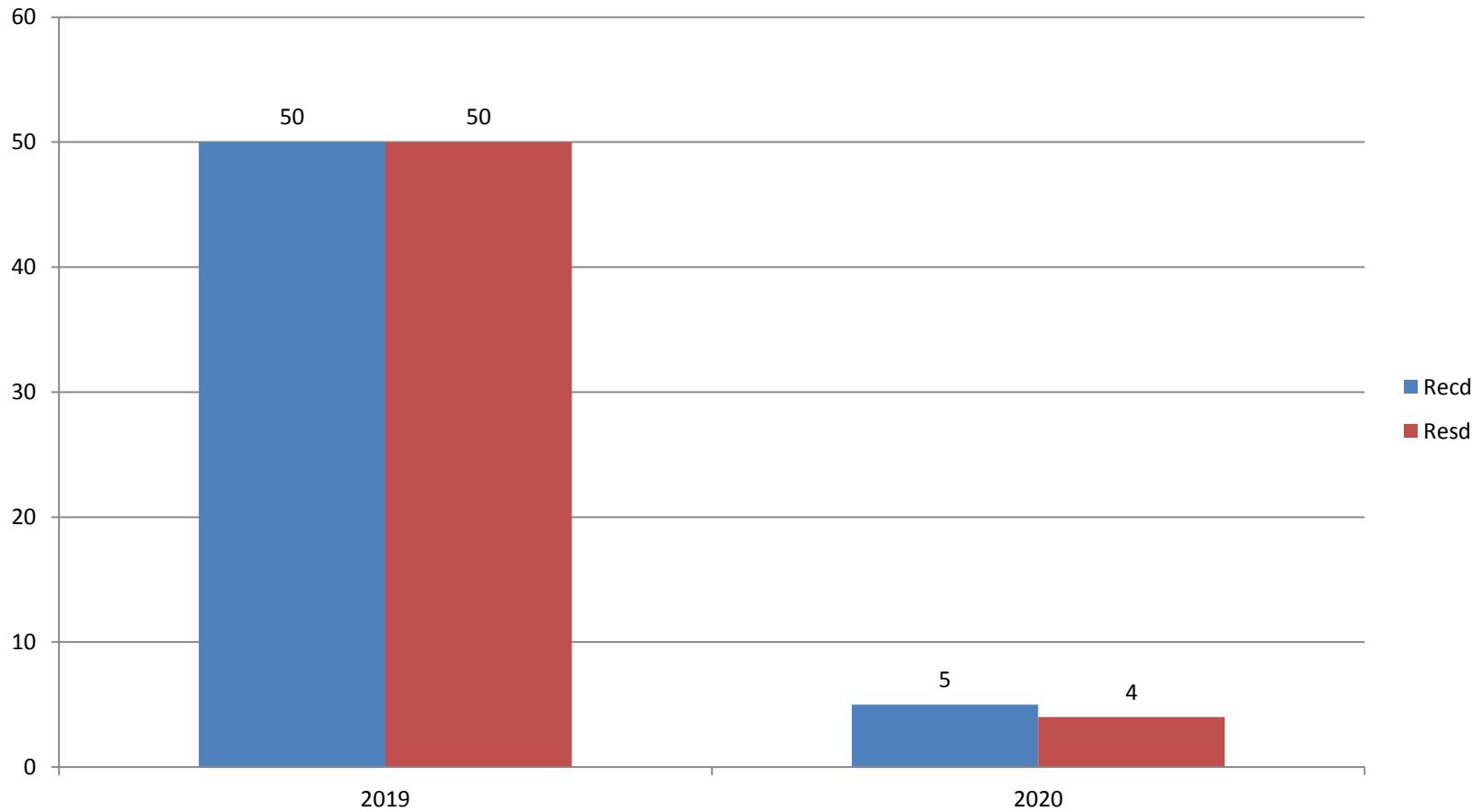
# General Queries Overview 2020



# Formal Queries 2020



# Disputes 2020



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## Close

- 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.***