

# Future Markets

## Stakeholder Engagement

Industry Workshop

27 January 2026

Location: Europa Hotel, Belfast &  
Online

Time: 10:30 - 13:00



# Future Markets - Industry Workshop

## Why Are We Here?



Inform

Programme status, timelines, impacts



Engage

Hear participant views and questions



Discuss

Functional, technical and regulatory changes



Listen

Understand impacts to your business



Housekeeping

Please note that recording and use of AI bots are not permitted during this meeting. Thank you for your understanding.

# January 2026 Future Markets Workshop Agenda

Time	Segment	Topic Detail
10:30 - 10:35	Introduction & Housekeeping	<ul style="list-style-type: none"><li>An intro to the agenda and meeting guidelines</li></ul>
10:35 - 11:05	Scheduling & Dispatch Programme (SDP)	<ul style="list-style-type: none"><li>Programme Update</li><li>Update on SDP02 since go-live</li><li>Refresher on Tranche 2 Initiatives</li></ul>
11:05 - 11:30	Future Arrangements for System Services (FASS)	<ul style="list-style-type: none"><li>General Programme Update</li><li>P&amp;S Q&amp;A</li></ul>
11:30 - 11:40	Energy Market Policy (EMP)	<ul style="list-style-type: none"><li>Post-Brexit Arrangements discussion</li></ul>
11:40 - 11:45	Long Duration Energy Storage (LDES)	<ul style="list-style-type: none"><li>Update on LDES progress</li></ul>
11:45 - 12:05	Breakout Session	<ul style="list-style-type: none"><li>Breakout into discussion groups</li></ul>
12:05 - 12:15	Technical Liaison Group (TLG)	<ul style="list-style-type: none"><li>Update on TLG</li></ul>
12:15 - 12:25	Strategic Markets Programme (SMP)	<ul style="list-style-type: none"><li>General Programme update</li></ul>
12:25 - 12:55	Manually Activated Reserves Initiative (MARI)	<ul style="list-style-type: none"><li>MARI - A Day in the Life</li></ul>
12:55 - 13:00	AOB & Concluding Remarks	<ul style="list-style-type: none"><li>Any other business, closing remarks</li></ul>
13:00	Workshop Close & Networking Lunch	



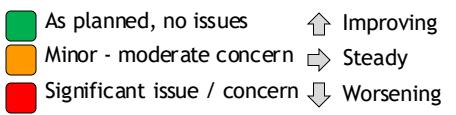
# Scheduling & Dispatch Programme (SDP)

- A general programme update
- Update on SDP02 since go-live
- Refresher on Tranche 2 initiatives

Slido Code: FPM



# Scheduling and Dispatch - Status



## Summary Status

Overall Status	SDP-02 (ESPS) and SDP-04 (WDI) go-lives successfully delivered on 11th and 26th November, support has now transitioned to BAU operations. SDP-01 workshops between TSOs and RAs ongoing to facilitate modelling request. The programme is undertaking a planning activity to support Tranche 2 delivery. Current estimated go-live dates are in H2 2026.
Schedule - Tranche 1	<p><b>SDP-02 Energy Storage Power Stations (ESPS) and SDP-04 Wind Dispatch Improvements (WDI)</b>  SDP-02 (ESPS) and SDP-04 (WDI) go-lives were successfully delivered on 11<sup>th</sup> and 26<sup>th</sup> November, as planned. Programme is now closing out remaining SDP_02 and SDP_04 activities, hypercare has been completed and support has transitioned to BAU operations.</p> <p><b>SDP-01 Non-Priority Dispatch Renewables</b>  RAs and SEMC are assessing Mod_13_23 Treatment of NPDRs and SEM-24-044 Definition of Curtailment, Constraint and Energy Balancing related to SEM-13-011. To facilitate this assessment the RAs have requested the TSOs undertake independent modelling to inform this decision. Workshops between TSOs and RAs are in progress as per below timeline.</p> <p>Joint statement from RAs and TSOs:</p> <p><i>"We acknowledge the delay in progressing the introduction of Non-Priority Dispatch Renewables (NPDRs).</i></p> <p><i>To progress this initiative, the RAs and TSOs are taking the following steps:</i></p> <ul style="list-style-type: none"> <li><i>January: TSOs and RAs to hold a series of workshops to reaffirm shared objectives, ensure alignment and review modelling approach.</i></li> <li><i>Following this: TSOs will undertake modelling to inform decisions on Mod_13_23 and SEM-24-044.</i></li> <li><i>February: TSOs intend to host an industry workshop to provide clarity on progress and next steps, subject to above activities.</i></li> </ul> <p><i>The SDP_01 implementation timeline will depend on numerous factors, with further detail to be shared following a RA decision on Mod_13_23 and SEM-24-044. A comprehensive planning activity will be required after this decision to define timelines, finalise system design and test, and coordinate the necessary pre go-live activities."</i></p>
Schedule - Tranche 2	The programme is undertaking a planning activity to support Tranche 2 delivery. Current estimated go-live dates are in H2 2026. Tranche 2 initiatives are smaller in scope and will have limited impact on most market participants.
Resourcing	TSO/MO Programme teams are fully staffed.
Finances	SEMC All-Island Programme sub-committee approved the full funding request for the S&D (phases 3-5) programme on 22nd March 2024. However, the programme is currently reviewing overall programme costs, and a request for additional funding (through a change request or similar) for SDP will be submitted.

## SDP-02 Post Go-Live Update

- ESPS are fully integrated into scheduling & dispatch processes.
- In 70 days since SDP-02 Go-Live, energy delivered up ~50% in real time
  - Not just from introduction of charging PNs
  - Over 60% more energy being exported and approx. 40% more being imported
- Following PN ~90% of the time since late December
- Instantaneous exports exceeded 450 MW during evening peak on 15<sup>th</sup> December

# Scheduling and Dispatch - Programme Initiatives

## SDP\_01

### Operation of Non-Priority Dispatch of Renewables

- To facilitate the treatment of variable non-priority dispatch renewables in the scheduling & dispatch processes, as guided by portions of the Clean Energy Package Article 12 and subsequent SEMC consultations and decisions.



## SDP\_02

### Energy Storage Power Station Integration

- To facilitate the more effective use of ESPS in the scheduling and dispatch processes by improved modelling of their operating characteristics.
- To schedule / dispatch ESPS as per their physical notifications or deviate when reasonable to do so in accordance with principles of the Balancing Market.



## SDP\_04

### Wind Dispatchability Improvements

- To improve the Control Centers' renewables dispatch capability and to introduce "rebalancing" of renewables
- To redistribute curtailment or constraint to account for varying weather conditions (as reflected in change to unit availabilities) when reasonable to do so.

## Tranche 1    Tranche 2



### Scheduling and Dispatch Programme

## SDP\_03

### Fast Frequency Response

- To provide a solution for the integration of the FFR service into in the scheduling & dispatch processes including alignment with the approach to scheduling, dispatching and monitoring Primary Operating Reserve.

## SDP\_05

### Reserve Services

- To put in place the necessary operational tools and processes for scheduling and dispatching reserves from a broader pool of new types of service provider e.g. storage, wind, solar.

## SDP\_06

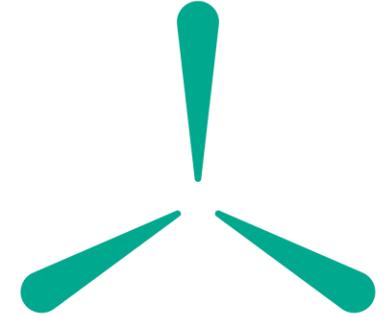
### Synchronous Condenser Integration

- To incorporate Synchronous Condenser units within scheduling and dispatch systems to appropriately meet inertia and reactive power requirements.
- Ability for Control Rooms to define and apply jurisdictional/regional inertial constraints, in addition to the current system-wide inertial requirements

# Scheduling and Dispatch - SDP-03/05 Overview

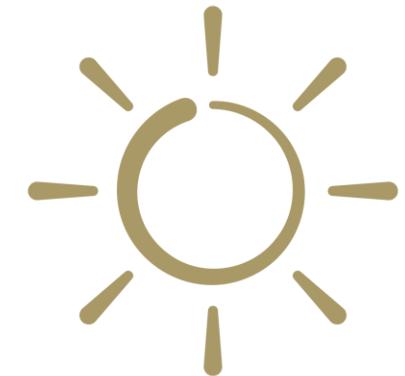
## SDP-03 Fast Frequency Response

- This initiative focuses on incorporating FFR from all market units capable of providing this service in operational systems.
- To achieve this, updates will be applied to the modelling, optimisation, monitoring and reporting for all FFR capable units.

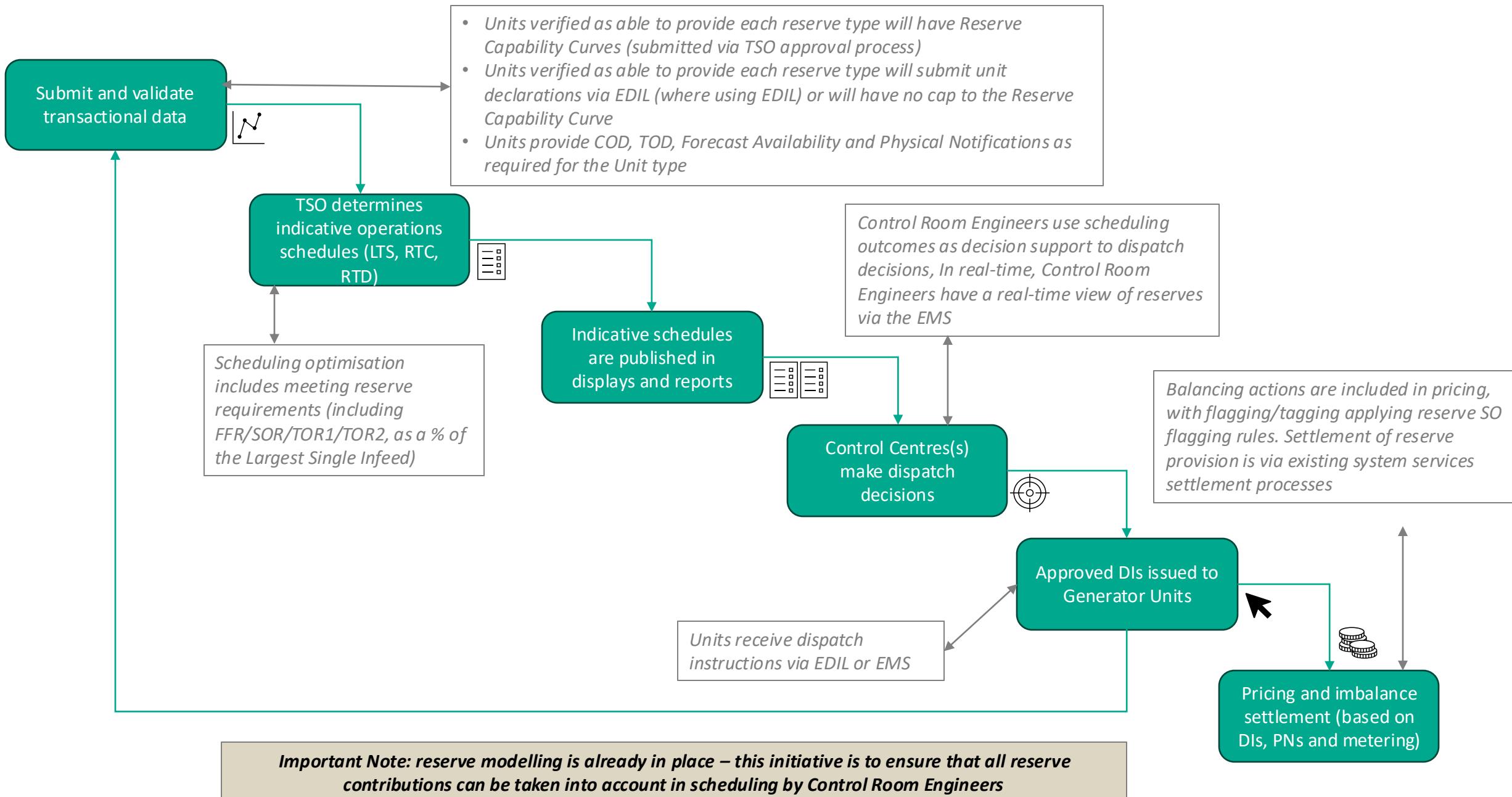


## SDP-05 Reserve Services

- This initiative focuses on incorporating reserve provisions from a broader pool of service providers such as wind and solar units to meet Ireland's reserve requirements.
- Further updates will also ensure that existing reserve settlement processes are maintained.



# SDP-03/05 - Reserve Services - Day in the Life

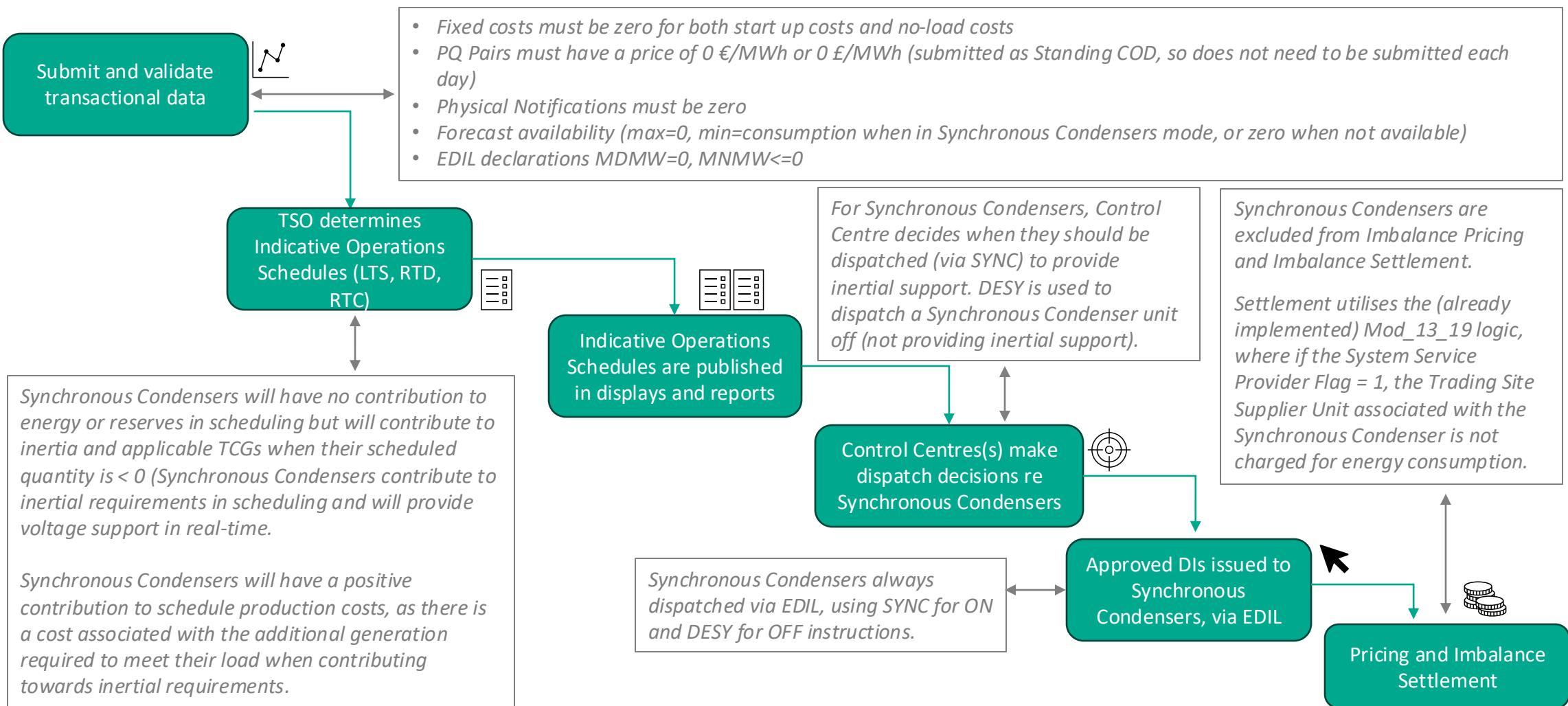


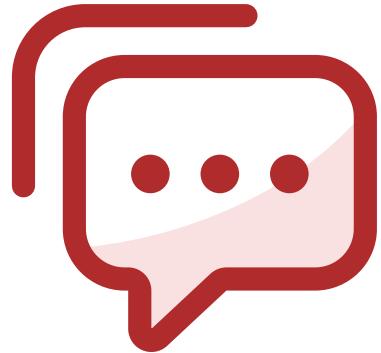
# Scheduling and Dispatch - SDP-06 Overview

- The integration of synchronous condensers is vital for achieving the goal of 80% renewable electricity and 95% SNSP by 2030.
- Synchronous condensers provide the same benefits to the grid as conventional generators, without providing electricity. Synchronous condensers provide inertia, reactive power control, as well as addressing short circuit issues.
- The current market framework does not accommodate the unique characteristics of synchronous condensers.
- SDP-06 aims to:
  - Incorporate Synchronous Condenser units within scheduling and dispatch systems to appropriately meet inertia and reactive power requirements.
  - Ensure correct settlement and pricing outcomes for synchronous condensers.
  - Enhance scheduling capability to take account of regional/jurisdictional and system inertia requirements identified in LCIS needs assessment.



# SDP-06 - Synchronous Condensers - Day in the Life





# Audience Q&A

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# Future Arrangements for System Services (FASS)

- A general programme update
- Parameters and Scalars Q&A

Slido Code: FPM



# Future Arrangement System Services

 As planned, no issues  Improving  
 Minor - moderate concern  Steady  
 Significant issue / concern  Worsening

## FASS Summary Status

Overall Status		<ul style="list-style-type: none"> <li>Overall programme status remains red.</li> <li>RA/TSO review of programme schedule underway to assess critical path challenges</li> </ul> <p><b>Path from red to Amber</b></p> <ul style="list-style-type: none"> <li>Agreed schedule and alignment on scope of non-reserve services consultation paper and mobilisation of TSOs test environments.</li> </ul>	<p><b>Path from amber to Green</b></p> <ul style="list-style-type: none"> <li>Commitment from IT vendors to work to deliver on changes to scope based on SEMC P&amp;S Decision. Onboarding of credit management vendor.</li> </ul>
Schedule		<ul style="list-style-type: none"> <li>Publication of non-reserves consultation 6+ months behind schedule. Workshops underway to progress challenges. Schedule to be reviewed once complete.</li> <li>Schedule for procurement of Secondary Trading Credit Management solution remains challenging.</li> <li>Licence modifications timelines to be re-baselined to account for delays.</li> <li>Clarification of programme critical path required in order to deliver PIR V4.0.</li> </ul>	
Resourcing		<ul style="list-style-type: none"> <li>Amber status. Challenges associated with overlapping design activities continue. SME resources are highly constrained and significant resource mobilisation effort needed as programme transitions from design to implementation.</li> </ul>	
Finances		<ul style="list-style-type: none"> <li>Formal funding approval letter received from the RAs December 2024.</li> </ul>	

## Key Messages

### Key Items for Attention / Discussion

- RAs and TSOs discussion of scope of non-reserves consultation continues. Detailed workshops progressing through January.
- Schedule for development of System Services code remains challenging, with detail of planned activities to be shared with working group members in near future. Monthly working groups expected from February through to September 2026.



### Key Upcoming Activities For Action:

- Publication of the Technical Liaison Groups ToR for FPM (Note - Cross programme initiative).
- Publication of information note on Consequential Losses post agreement with RAs.
- Updates to IT requirements post publication of P&S SEMC Decision.
- Schedule for RA led licence modifications expected soon.
- System Services code working group to recommence from February.



### Positive Developments.

- Parameters and Scalars SEMC Decision published on 19/12/2025.
- Detailed engagement underway with IT vendors to assess impact to scope / schedule following publication of P&S SEMC Decision.
- Ramp up of phase three resource requirements continues.

### Challenges

- Programme critical path challenges remain due to delay publication of non-reserves consultation.
- Resourcing remains challenging due to delays incurred by programme to date which are leading to overlapping workstream activities.

# SEMC Parameters & Scalars

## Decision Q&A



# FASS: Parameters & Scalars SEMC Decision

## DASSA Secondary Trading

- **Batch Matching Process**
  - Service providers can submit Buy and Sell Orders for a specific Trading Period at any time between the opening of the secondary trading market at approximately 16:00 D-1 and one hour (gate closure) before that Trading Period.
  - An instance of a half-hourly batch will process all trades in the Order Book for all Trading Periods from one hour hence up to the final Trading Period for which the daily auction has executed.
- **Traded DASSA Order Obligations**
  - A DASSA Order, or portion thereof, that has been traded successfully in a batch, transfers to the Buyer following that batch.
  - The Buyer now holds all of the commitment obligations of that Order (or portion thereof).
  - The Buyer will be in receipt of the DASSA Payment for that Order (or portion thereof), assuming all commitment obligations are met.
  - The holder of a DASSA Order, whether secured in the daily auction or subsequently in secondary trading, may submit a Sell Order within the secondary trading window.
  - **Note:** The TSOs intend that the settlement of secondary trades between Buyers and Sellers – the payment of the secondary trading prices from Buyer to Seller – will be managed centrally (via a third party), accounting for collateral etc.

# FASS: Parameters & Scalars SEMC Decision

## DASSA Secondary Trading

- **Bilateral Trading**
  - Bilateral trades will be treated differently to Buy and Sell Offers submitted into the secondary trading platform to be matched:
    - The TSOs will validate that a bilateral trade does not violate auction constraints and evaluate it against other criteria relating to the units' capabilities.
    - Once a bilateral trade has been validated successfully, the trade will be considered as 'matched' in the secondary trading Order Book.
    - The outcome of bilateral trades will be captured with regard to a unit's DASSA Order – adjusted up or down depending on being buyer / seller.
  - Bilateral trading will be performed on a unit basis: a unit may trade with another unit in the same portfolio (party).
  - Note that the SEMC states in SEM-24-066: *[Bilateral trading] will be kept under ongoing review and the mechanism may be ceased in the event concerns around market power abuses emerge.*

# FASS: Parameters & Scalars SEMC Decision

## DASSA Clearing

- **Scarcity Pricing**
  - Scarcity Pricing applies in instances of Volume Insufficiency only, i.e. where the TSOs do not procure required volume (service + zone + quality) for specific Trading Periods in the DASSA, within a threshold. (**Note:** Scarcity Pricing does not apply to lapsed volumes.)
  - In such a scenario, the TSOs will enter the Secondary Trading Market following the publication of the DASSA outcomes to procure the missing volumes, e.g. 20MW of Dynamic POR in NI for two Trading Periods 12:00 – 13:00 in D.
  - The DASSA Clearing Price for Dynamic POR in Northern Ireland for 12:00 – 13:00 in D will be set to the Scarcity Price of €650/MWh (Stg equivalent).
  - The Scarcity Price will apply to all DASSA Orders for this requirement in these two Trading Periods: DASSA Orders awarded in the daily auction and any Orders subsequently traded in the secondary market.
  - **Note:** The DASSA Clearing Price is not to be confused with the secondary trading Buy and Sell prices – the prices that a Buyer and Seller are willing to pay to / receive from the other trading party to transfer a DASSA Order (or portion thereof).

# FASS: Parameters & Scalars SEMC Decision

## DASSA Commitment Obligations & Incentives

- **Compensation Payments**

- A Compensation Payment will be payable to the TSOs for any lapsed volume of a DASSA Order:
  - Self-lapsed volume, or
  - Volume that is incompatible with a unit's FPN at gate closure (1 hour before the applicable Trading Period).
- The Compensation Payment rates are specified in SEM-25-074 (section 4.12):

	FFR	POR	SOR	TOR1	TOR2	RR
One-Off Multiplier	70%	70%	50%	50%	40%	40%
Floor MWh	1.79	1.79	1.28	1.28	1.02	1.45

- DASSA Payments will also be forfeit for any lapsed Orders (or portion thereof). Per SEM-24-066 (section 4.1): *The SEM Committee has decided that all units which are unable to meet commitment obligations will not be eligible to receive a DASSA payment.*

# FASS: Parameters & Scalars SEMC Decision

## DASSA Commitment Obligations & Incentives

- **Availability Incentives**

- An Availability Incentive will apply to DASSA Order volumes (or portion thereof) that are not declared available in real-time.
- The Availability Incentive rates are specified in SEM-25-074 (section 4.13):

	FFR	POR	SOR	TOR1	TOR2	RR
One-Off Multiplier	25%	25%	25%	25%	25%	25%
Floor MWh	0.64	0.64	0.64	0.64	0.64	0.91

- Availability Incentives will be in addition to:
  - Forfeit of DASSA Payments for any Order (or portion thereof) that is not declared available in real time.
  - Application of Compensation Payment for any Order (or portion thereof) that is not declared available in real time.



# Audience Q&A

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# Energy Markets Policy (EMP)

A discussion on Post-Brexit Arrangements

Slido Code: FPM



# Post-Brexit Market Arrangements



19 December 2025

Non-confidential MRLVC report published<sup>1</sup>



22 December 2025

EU-UK negotiations authorised on participation in the IEM<sup>2</sup>



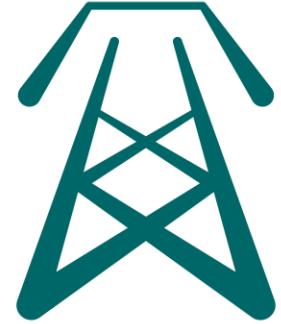
Work continues to assess Day Ahead Market options, capacity calculation and transmission rights for SEM-GB in preparation for key policy decisions

<sup>1</sup>[ENSO-E publishes non-confidential version of the Responses from the TSO group to technical questions on Multi-Region Loose Volume Coupling between EU and UK](#)

<sup>2</sup>[EUR-Lex - 52025PC0804 - EN - EUR-Lex](#)

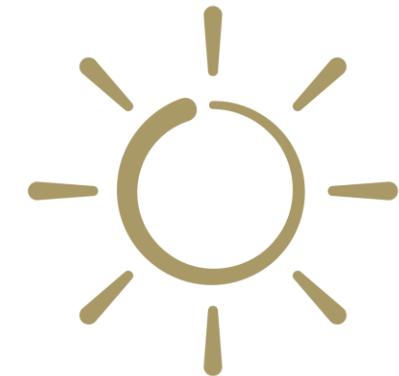
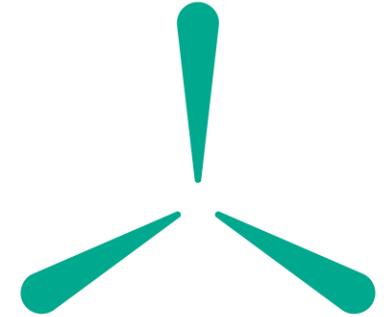
# Day Ahead Market Options Workstream

- Examination of Options Regarding SEM-GB coupling arrangements on the Day Ahead Market.
- Analysis covering existing arrangements, an examination of MRLVC, further background and investigating evaluation criteria for additional options.
- Ongoing work including review and assessment of Service Price Coupling, Explicit Coupling and a Return to Full Coupling.



# Capacity Calculation Workstream

- Examination of Capacity Calculation on SEM-GB border in context of Brexit and anticipated go-live of Celtic Interconnector.
- Analysis covering Capacity Calculation Approaches - Net Transfer Capacity (NTC), Flow Based (FB) and Advanced Hybrid Coupling (AVC).
- Ongoing work - further analysis of impact of the Celtic Interconnector, Impact of Market Coupling Arrangements and further evaluation on the Capacity Calculation Approaches listed.



# EU-UK Negotiations - What We Know

New EU-UK Electricity Agreement

Dynamic Alignment

State Aid Rules

ENTSO-E & DSO Entity

ACER participation (without voting rights)

Court of Justice of the European Union

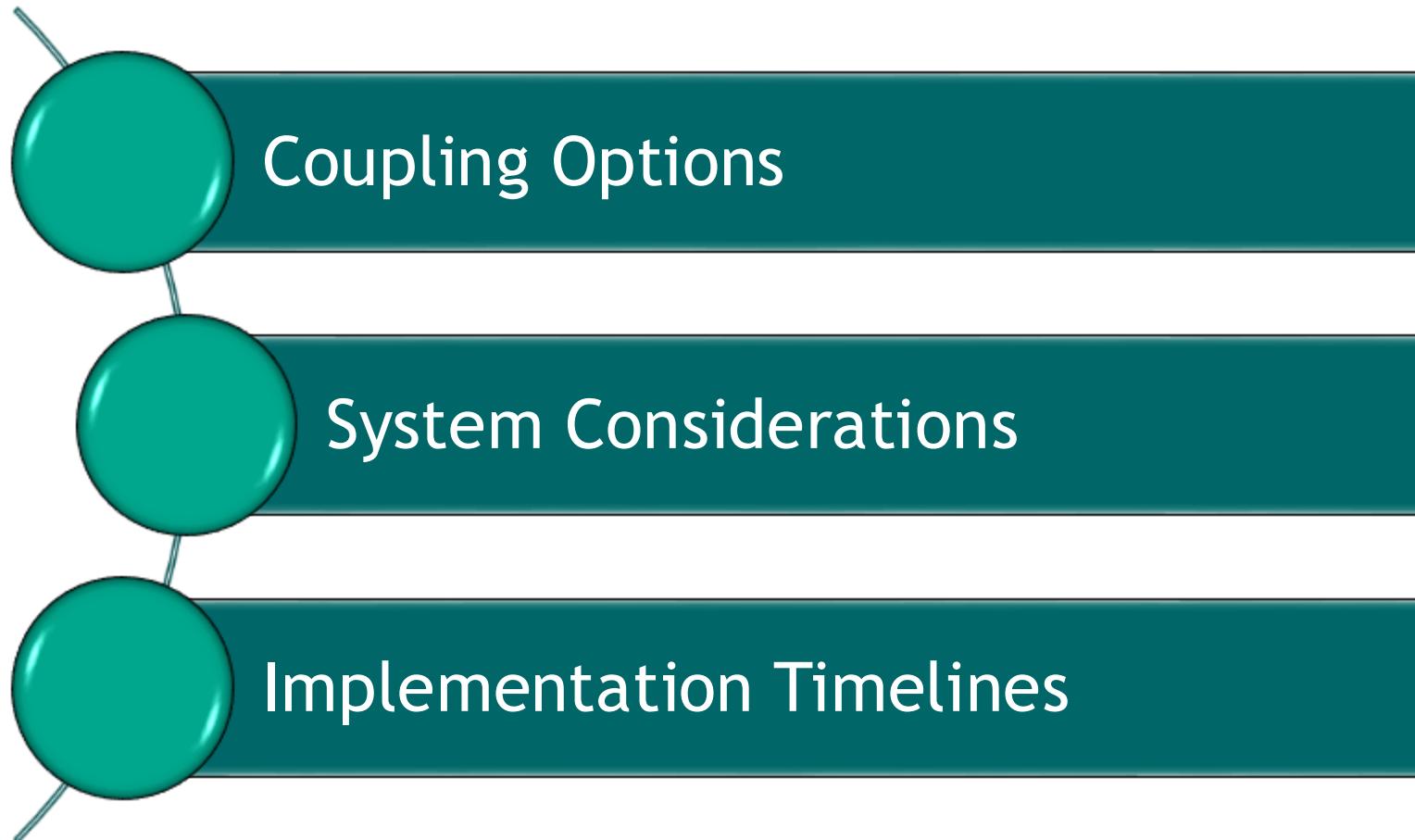
Joint Governance Mechanism

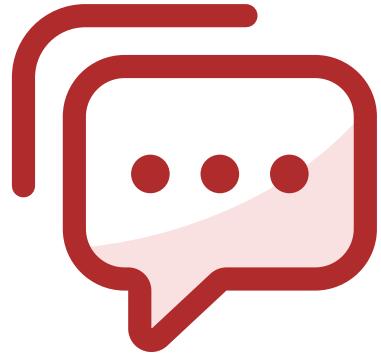
Financial Contribution

New agreement to supersede MRLVC requirements in the TCA



# Next Steps





# Audience Q&A

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# Long Duration Energy Storage (LDES)

A procurement consultation  
update

Slido Code: FPM



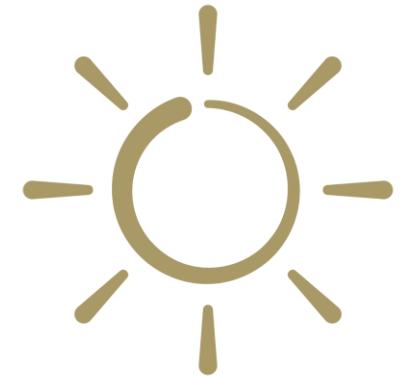
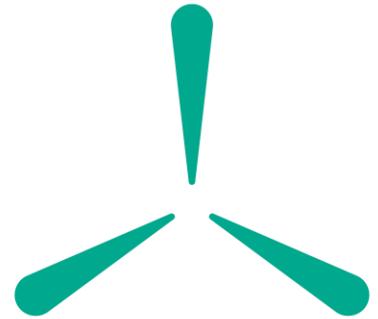
# LDES - EirGrid

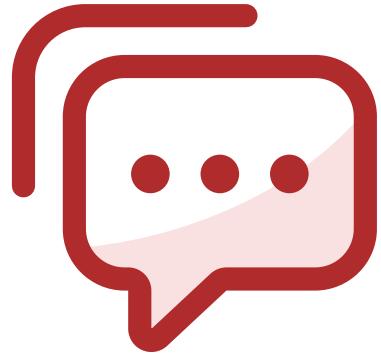


Work is ongoing on finalising a procurement approach recommendation paper that will inform the CRU decision paper.



Contractual consultation will follow - aiming to ensure contractual consultation, and associated recommendation paper and CRU decision paper on the contractual aspects will be finalised by the end of 2026





# Audience Q&A

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Break

# Technical Liaison Group (TLG)

Update

Slido Code: FPM



# Technical Liaison Groups- Introduction



EirGrid and SONI are establishing the Future Power Markets Technical Liaison Groups (TLG) to support the delivery of technical requirements across their respective major market programmes.

## Objectives:

Designated forum for communication, engagement, and coordination with Market Participants on the technical aspects of respective programmes.

- ✓ Provide targeted information to relevant stakeholders.
- ✓ Platform for Market Participants to share views, particularly regarding the impact of programme changes on their own delivery plans.
- ✓ Promote transparency and early engagement through the timely release of documentation.
- ✓ To serve as the principle forum for engagement with industry stakeholders on technical topics, such as technical specifications, connectivity and participant interface testing.
- ✓ To offer stakeholder support and ensure feedback is actively managed.

## Operating Principles:

- **Technology Standards:** TSOs to leverage and move to latest industry technical standards where possible.
- **'Shift Left':** Provide industry and relevant stakeholders with the option for early engagement during programme implementation phases, noting that content may evolve as the programme progresses with the respective vendors.
- **Feedback Mechanisms:** Establish mechanisms to collect and incorporate feedback specific to technical challenges and opportunities for improvement, allowing for insights to be considered and accounted for where appropriate by the respective programmes.
- **Consistency:** Ensure uniform interpretation and implementation of interface specifications and data formats. Identify points of contact and establish dedicated communication channels for key updates to maintain clarity and progress.

The TLG is the designated forum for communication, engagement, and coordination with Market Participants on the technical aspects of each Future Power Markets Programmes.

- ✓ Facilitate the exchange of information and feedback on technical design elements.
- ✓ Consider input from Market Participants where appropriate.
- ✓ Ensure that TSOs provide clear specifications and support understanding of the technical designs.
- ✓ Enable Market Participants to align their implementations with the defined standards.
- ✓ Serve as a peer forum for participants to discuss implementation challenges.
- ✓ Co-ordinate key test phase activities with industry (e.g.: IT connectivity, Market Trials etc.).

Topic Items (Non-Exhaustive)

 Technical Specifications

 Data Publishing Guides

 Industry IT Connectivity

 Co-Ordinate IT Sandbox Testing

 Programme Updates

 Business Design

## Membership:

Membership will not be limited; however, members are expected to be the Technical Delivery Leads or equivalent roles in their organisation. Active participation is expected, and representatives may nominate alternates, including third-party representatives.

To ensure the TLG operates as effectively as possible, it is proposed that Group members should have:

- Availability to review materials and contribute meaningfully to discussions.
- Relevant technical experience.
- Familiarity with programme consultations and SEM Committee decisions.
- Commitment to the group's objectives.
- Experience in programme delivery.

The TSOs reserve the right to review membership requirements at a later as needed to improve and manage ways of working as programmes evolve.

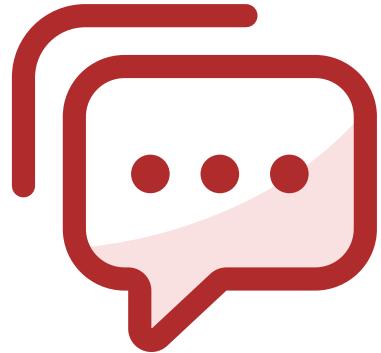
## Work Breakdown Structure:

A summary of the work breakdown structure has been outlined below for clarity:

- The TLG will initially meet every two months, with frequency reviewed and adjusted as needed.
- Meetings will be chaired by the TSOs, who will also provide secretariat support and ensure representation from Programme, IT, and Change Management teams.
- Meeting details will be communicated in advance.
- Feedback and queries will be logged and responded to, unless marked confidential.

# Next Steps

- Additional feedback is welcome via respective Future Power Markets and programme email addresses. ([FuturePowerMarkets@Eirgrid.com](mailto:FuturePowerMarkets@Eirgrid.com) or [futurepowermarketsNI@soni.ltd.uk](mailto:futurepowermarketsNI@soni.ltd.uk))
- Points of contact by organisation will be sought end of February.
- Expectation is that first TLG will be scheduled for either March or April; however this is dependent on timely delivery of content from respective vendors.



# Audience Q&A

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# Strategic Markets Programme (SMP)

A general programme update

Slido Code: FPM



# Strategic Markets Programme

SMP SEM-EU covers integration initiatives such as capacity calculation, day-ahead coupling, auctions for long-term transmission rights and Regional Coordination Centre (RCC) services, aligned with the Celtic Interconnector go-live and incorporating Multi-NEMO Arrangements (MNA) and MARI platform integration

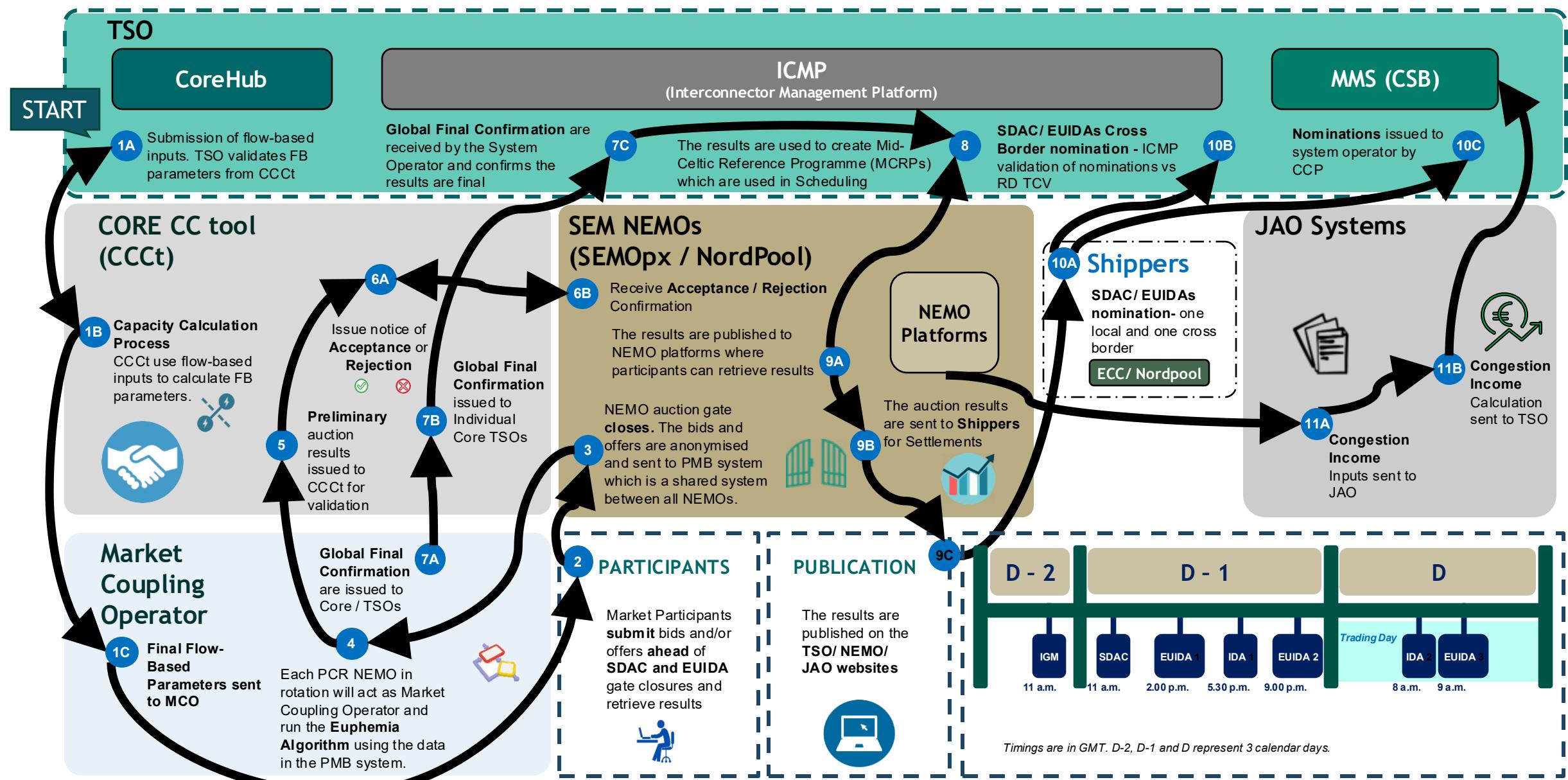
## Looking ahead at the high-level timelines...

2027	Q1 2028
DA Core Parallel Run & SDAC External Market Testing	Coupled Operational Trading (SDAC and SIDC)
ID Core Parallel Run & SIDC External Market Testing	

## Looking ahead to 2026...

- Regulatory approval will be sought for a number of methodologies and derogations relevant to EU legislation
- 2026 will be a year of internal testing of relevant markets systems to make sure we are ready to begin external testing of these systems in 2027
- A new system Core Hub will be procured to perform the Core capacity calculation tool for SEM. The Interconnector Management Protocol (ICMP) will also need to be updated.
- Detailed internal procedures for CORE Operations, SDAC and SIDC will be completed
- Complete Business Process Documents for all the "non-IT" services provided by CORESO

# Day in the Life: SDAC & EU Intraday Auctions



Step	Description
1A	Flow-based inputs submitted TSO submits flow-based inputs to CCCt to execute the DA/ IDA capacity calculation processes.
1B	Flow based parameters validated CCCt uses flow-based inputs to calculate flow based parameters (PTDF/ RAMs/ etc.). These parameters are then validated with TSOs.
1C	Final flow based parameters sent to MCO CCCt submits final flow-based parameters and allocation constraints for Celtic IC on behalf of TSOs to Market Coupling Operator (MCO) who runs the Euphemia algorithm.
2	Participant bids/ offers submitted Participants submit bids/ offers through NEMO platforms.
3	Gate closure NEMO gate closes ahead of each Auction. NEMOs send shared order books (SOBs) to PMB system.
4	Euphemia algorithm runs Euphemia algorithm runs after each auction gate closure.
5	Preliminary Auction results issued Preliminary auction results issued to CCCt and NEMO platforms.
6A	Results accepted/rejected CCCt issues notice of Acceptance or Rejection of results on behalf of TSO
6B	Notification issued NEMOs receive Acceptance / Rejection notification from CCCt.
7A 7B 7C	Results issued MCO issues GFC to Core CC Tool. Core CC Tool issues GFC to EirGrid TSO
8	MCRP created Market Results (Rights Documents) are used by EirGrid to create Celtic MCRP for scheduling (schedule validated with RTE).
9A 9B	Results issued Issue confirmation to CCPs.
9C	Results published Publication of Market Results from respective parties NEMO, TSO, JAO.
10A	SDAC nominations created NEMOs create SDAC nominations based on results (local and cross border).
10B	NEMO XB Nomination Validation NEMO XB Nominations received and validated against Market Results (Rights Documents).
10C	Local Nominations Local nominations issued to system operators by Shipping Agents.
11A	Congestion Income Inputs Congestion Income Inputs sent from CCPs to JAO.
11B	Congestion Income Processing JAO processes congestion income settlements and sends invoice to TSO.



# Audience Q&A

- ⓘ The Slido app must be installed on every computer you're presenting from

# Manually Activated Reserves Initiative (MARI)

## A day in the life

Slido Code: FPM



# Agenda

## I. Day in the Life (DITL) of a Participant

- Participant-MARI Relationship
- MARI Inputs
- MARI Outputs

## II. Activated Bids

## III. Imbalance Pricing

## IV. Settlement

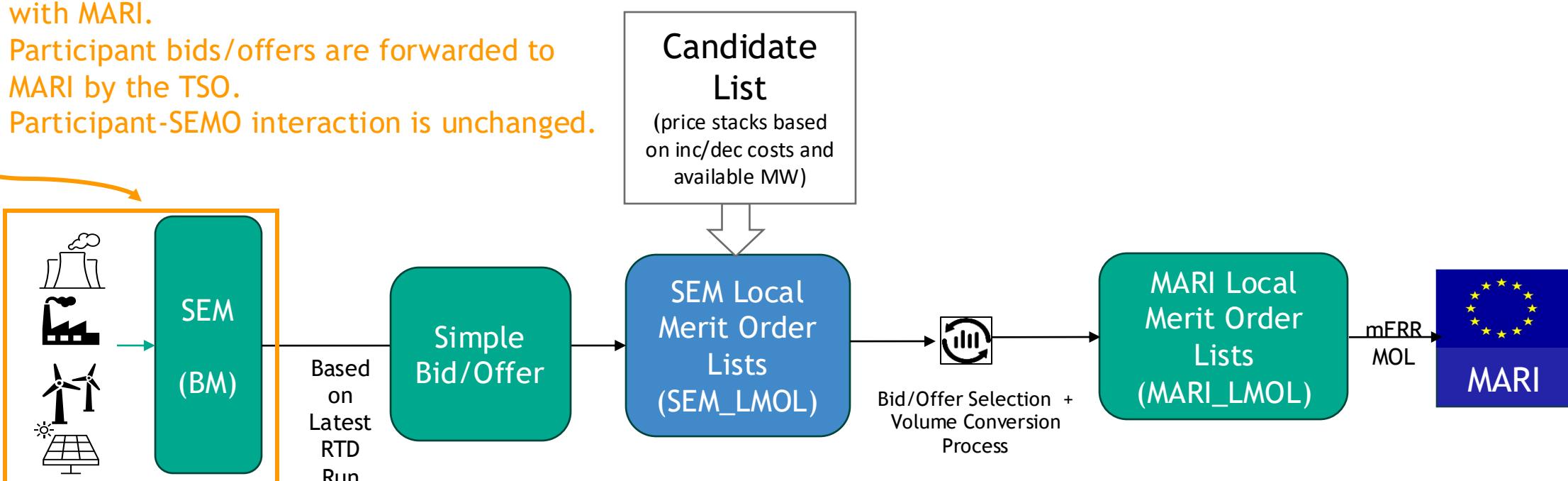
## V. Day in the Life (DITL) of a Participant Summary



# Day in the Life (DITL) of a Participant:

## 1. Participant-MARI Relationship

1. Participants have no direct interactions with MARI.
2. Participant bids/offers are forwarded to MARI by the TSO.
3. Participant-SEMO interaction is unchanged.



- Participant's Submit Bids/Offers
  - Commercial Offer Data
  - Technical Offer Data
- Latest PN or Dispatch Instruction

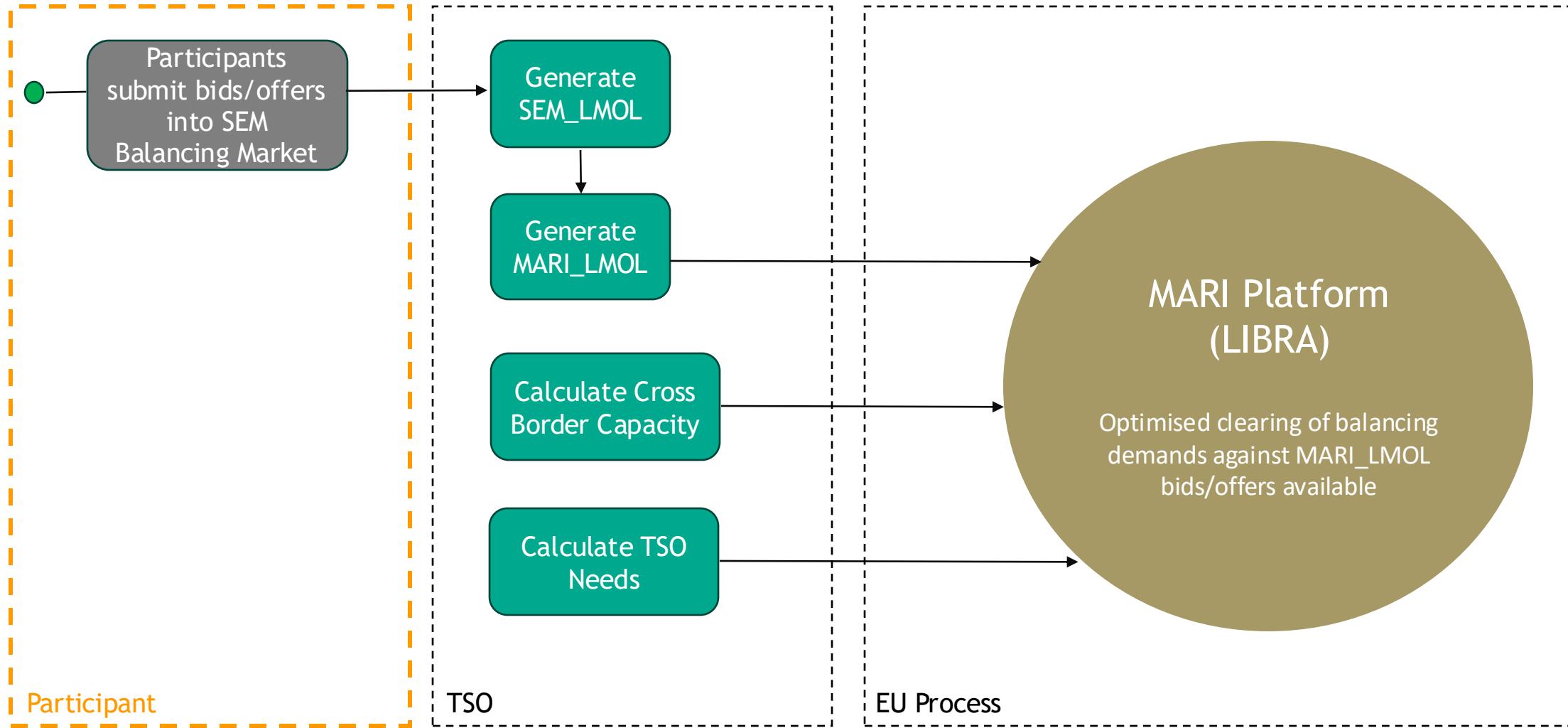
# DITL of a Participant:

New/Amended Process (SEM)

Existing Process (SEM)

Existing Process (EU)

## 2. MARI Inputs



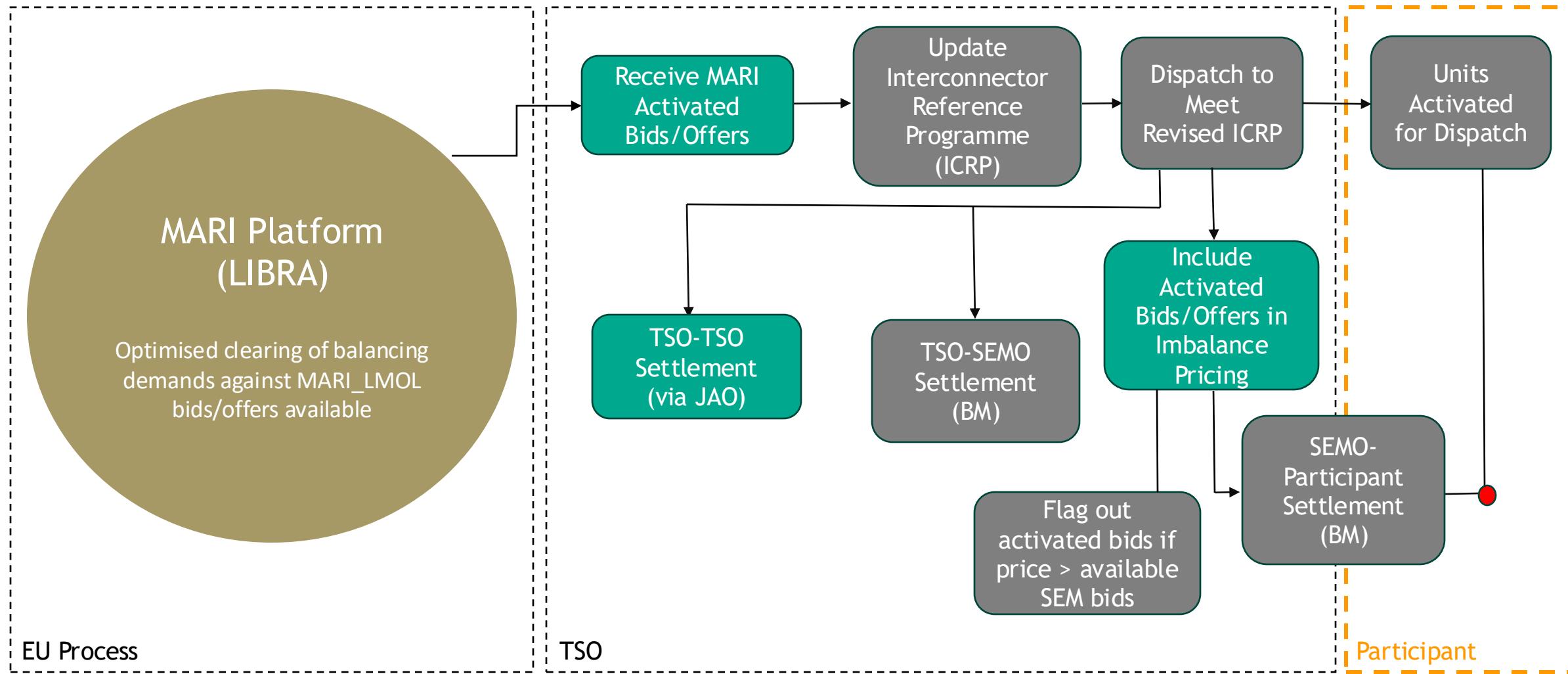
# DITL of a Participant:

New/Amended Process (SEM)

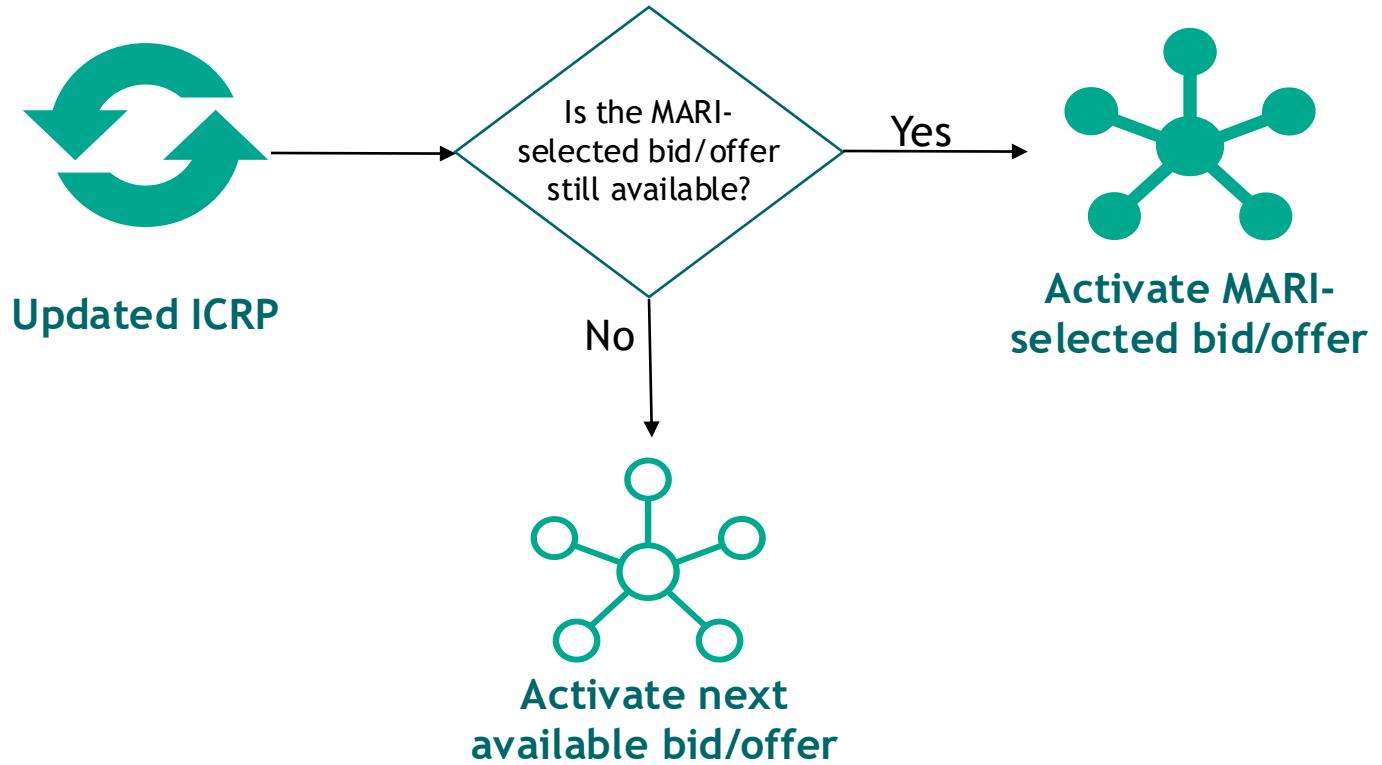
Existing Process (SEM)

Existing Process (EU)

## 3. MARI Outputs



# Activated Bids



If a bid/offer is selected by MARI, but it has subsequently been activated by the TSOs in the SEM, it can no longer be activated to meet the MARI results.

In that case, the TSOs would activate the next available most economic bid/offer to deliver cross border balancing energy for MARI.

Reasons why the MARI-selected bid/offer may no longer be available:

1. During the time between the MARI Local Merit Order List (MARI\_LMOL) submission and the TSO receiving the MARI results, the bid/offer included in the MARI\_LMOL may have been activated in the SEM as part of normal balancing operations.
2. Bid/offer is no longer available because of system security issues that were not apparent prior to the submission of the MARI\_LMOL.
3. Bid/offer is no longer available because the unit is no longer online (e.g. unit trip).

\*All deviations will be reported on for ETP.

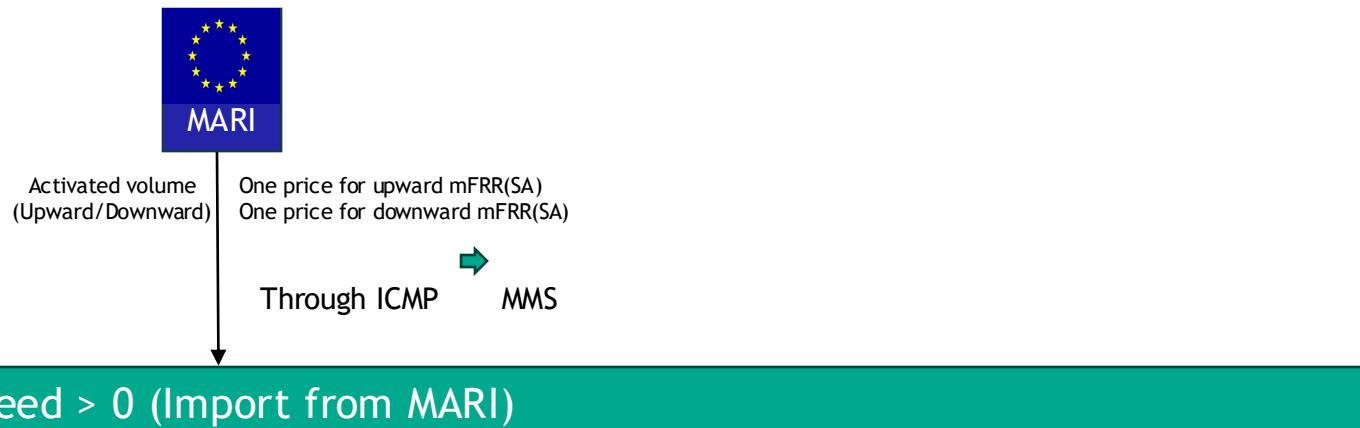
# Imbalance Pricing

Unlike IRCU trades on SEM-GB which are excluded, MARI trades will be included when determining the imbalance price. The reasons for this:

- MARI is a competitive market with prices based on participant submission.
- It is defined in the network codes that MARI trades can set the price.

Out-of-merit imbalance prices expected to be flagged by the NIV tagging functionality. Details will be investigated during the detailed design phase.

Legal Requirement: As per Article 30 of EBGL, MARI prices must be considered for Imbalance Pricing



SEM Need = 0 (Export to MARI) or SEM Need > 0 (Import from MARI)

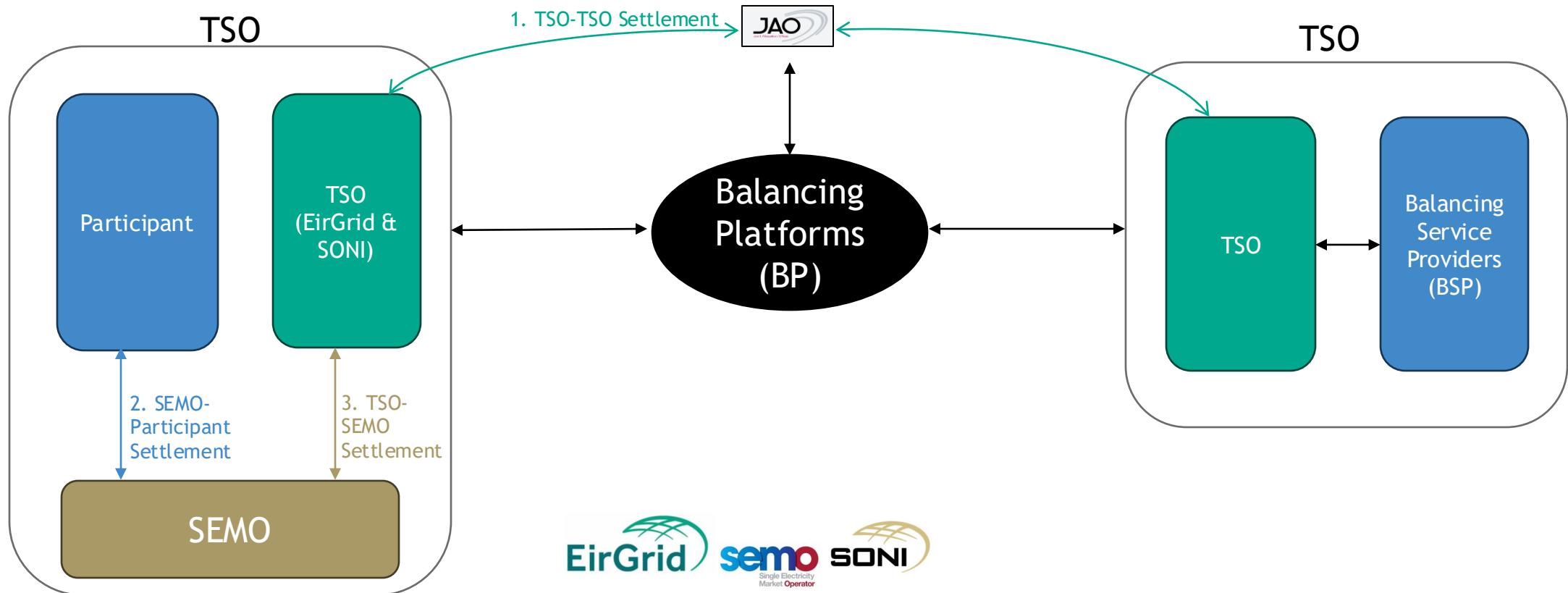
The solution shall provide input to the imbalance price calculation for flagging/tagging based on the activated bid price irrespective of the defined purpose<sup>1</sup> of the TSO need. The NIV tagging shall have the following principal in consideration for MARI:

- If the MARI activated bid price > local SEM bids, then it is always flagged as **Non-Energy Action** and thereby no impact on the PIMB.
- If the MARI activated bid price < local SEM bids, then it is always flagged as **Energy Action** and operational data input given to CSB via MMS.

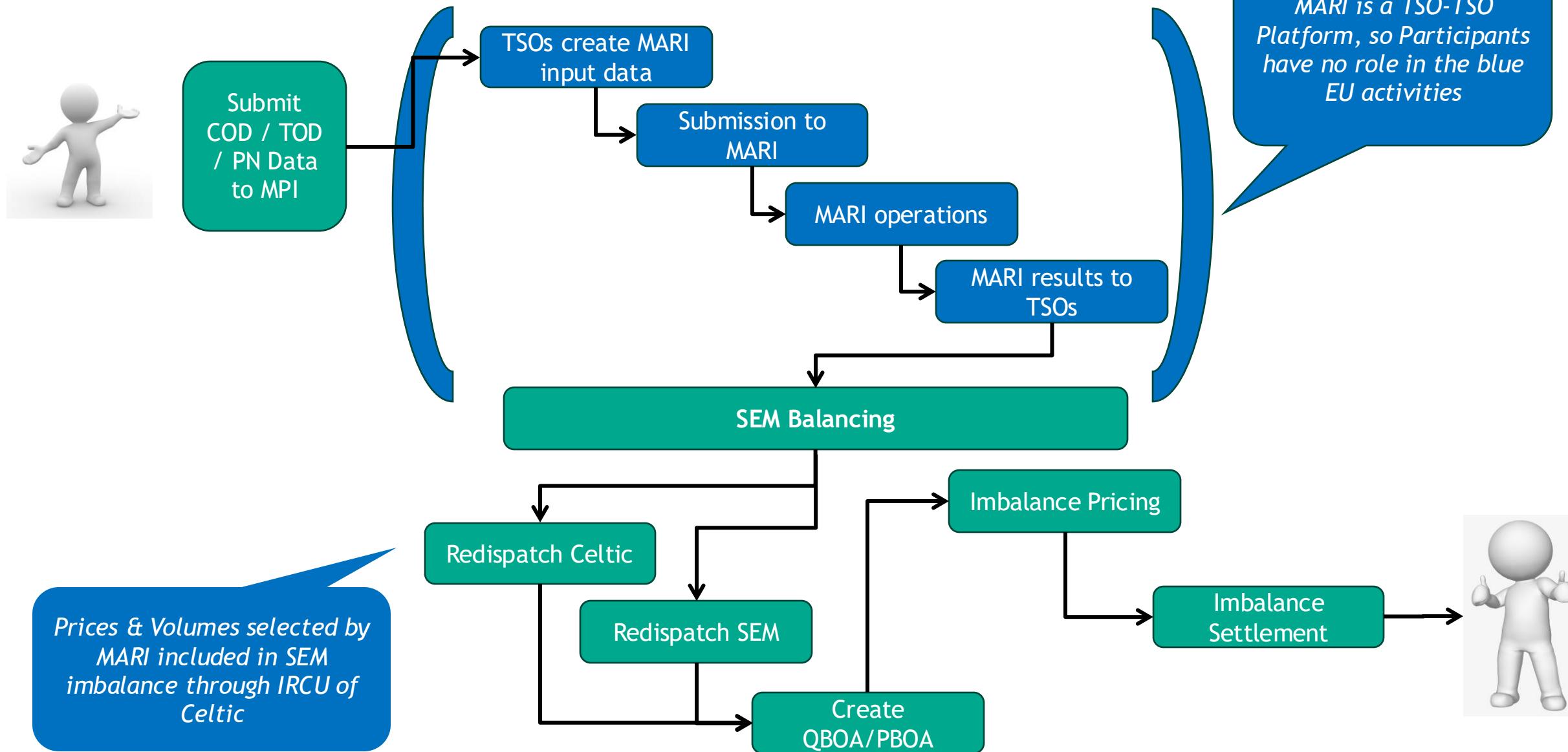
<sup>1</sup> Note: An assumption is to be made to note that the actions taken by MARI are for energy actions to manage energy, and therefore it can be assumed that its output is with the goal to manage energy (similar approach to EUPHEMIA) for the participating TSO irrespective of the defined purpose of the needs.

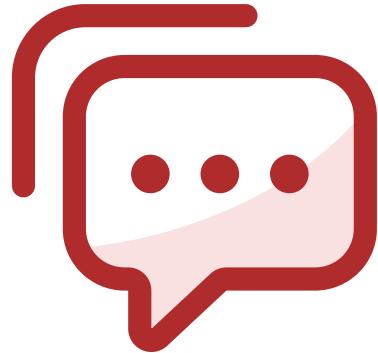
# Settlement

1. TSO-TSO settlement is handled by JAO.
2. Participants are settled through SEMO the same way that they are currently settled (no change).
3. MARI volumes are pulled into settlement with SEMO through the IRCU.



# DITL of a SEM Participant Summary





# Audience Q&A

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# Any Other Business & Concluding Remarks



Slido Code: FPM



# Future Power Markets Workshops 2026



Dates	Location
Wednesday, 25 <sup>th</sup> February 2026	Online
Wednesday, 25 <sup>th</sup> March 2026	In person only, The Alex Hotel, Dublin
Wednesday, 22 <sup>nd</sup> April 2026	Online
Wednesday, 20 <sup>th</sup> May 2026	In person, The Oval, Dublin / Online
Wednesday, 24 <sup>th</sup> June 2026	Online
Wednesday, 29 <sup>th</sup> July 2026	In person, The Oval, Dublin / Online



# Thank You!





## Contacts & Acronyms & Abbreviations



# Stakeholder Engagement: Contacting Future Markets Programmes

To raise an issue or query for the Future Markets Programmes:

Contact	Information to Provide
  <b>SDP Queries (Scheduling &amp; Dispatch Programme)</b> <a href="mailto:SchedulingandDispatch@Eirgrid.com">SchedulingandDispatch@Eirgrid.com</a> <a href="mailto:SchedulingandDispatch@soni.ltd.uk">SchedulingandDispatch@soni.ltd.uk</a>  <b>LDES Queries (Long Duration Energy storage)</b> <a href="mailto:LDES@Eirgrid.com">LDES@Eirgrid.com</a> <a href="mailto:LDESProgramme@soni.ltd.uk">LDESProgramme@soni.ltd.uk</a>  <b>FASS Queries (Future Arrangements for System Services)</b> <a href="mailto:FASS@Eirgrid.com">FASS@Eirgrid.com</a> <a href="mailto:FASSProgramme@soni.ltd.uk">FASSProgramme@soni.ltd.uk</a>  <b>SMP Queries (Strategic Markets Programme)</b> <a href="mailto:SMP.PMO@Eirgrid.com">SMP.PMO@Eirgrid.com</a>  <b>FPM Overall and EMP (Energy Market Policy)</b> <a href="mailto:FuturePowerMarkets@Eirgrid.com">FuturePowerMarkets@Eirgrid.com</a> <a href="mailto:futurepowermarketsNI@soni.ltd.uk">futurepowermarketsNI@soni.ltd.uk</a>	<ul style="list-style-type: none"><li>• Your Name</li><li>• Your email &amp; phone number</li><li>• Your organisation</li><li>• Topic of Issue/Query &amp; Programme Name</li><li>• Description of the issue or query</li><li>• Any additional information to aid in understanding the issue or query</li><li>• <i>(No requirement to email the same query to both EirGrid and SONI email addresses for a relevant programme)</i></li></ul>

## List of Acronyms:

**ACER** - Agency for the Cooperation of Energy Regulators

**CACM** - Capacity Allocation and Congestion Management

**CBAM** - Carbon Border Adjustment Mechanism

**CRU** - Commission for Regulation of Utilities

**DECC** - Department of Environment, Climate and Communications

**DESNZ** - Department for Energy Security and Net Zero

**DfE** - Department for the Economy

**EMD** - Electricity Market Design

**ENTSO-E** - European Network of Transmission System Operators for Electricity

**ESB** - Electricity Supply Board

**ESO** - Electricity System Operator

**FASS** - Future Arrangements for System Services

**FCA** - Forward Capacity Allocation

**FPM** - Future Power Markets

**FPMDA** - Future Power Markets Design Authority

**LDES** - Long Duration Energy Storage

**NESO** - National Energy and System Operator

**Ofgem** - Office of Gas and Electricity Markets

**PIR** - Phased Implementation Roadmap

**RAs** - Regulatory Authorities

**REMA** - Review of Electricity Market Arrangements

**REMIT** - Regulation on Wholesale Energy Market Integrity and Transparency

**RfQ** - Request for Quote

**SDP** - Scheduling and Dispatch Programme

**SEM** - Single Electricity Market

**SEMC** - Single Electricity Market Committee

**SEMO** - Single Electricity Market Operator

**SME** - Subject Matter Expert

**SMP** - Strategic Markets Programme

**SONI** - System Operator for Northern Ireland

**UR** - Utility Regulator