

Future Power Markets

Stakeholder Engagement

Industry Workshop: 20th August 2024

This presentation provides an update on the Future Power Markets Programmes.

Achievable - Valuable - “Simple”



Future Power Markets - Industry Outreach

Why Are We Here?



Inform

We are here to provide information about the ongoing programmes of work in the Future Power Markets space and the impact on the market participant community. We will provide a view of the programmes' drivers, functional details, structure, timelines, and stakeholder engagement.



Discuss

We will discuss the changes and how this impacts you and your portfolio. We will discuss the functional, technical, and formal arrangement changes, stakeholder engagement, and programme management updates. We are happy to field all questions - and we may not be able to answer all of them today.



Listen

We are here to listen. What are your thoughts on the FPM programmes, the functional, technical, and regulatory details and the impacts to your business? What questions do you need answers to? What clarity do you need?



Ask

We will ask for your participation throughout - we are better together.

FPM - Industry Workshop

Setting Expectations



Meeting Rules

1. **Engage:** actively listen and ask questions. This session is for you.
2. **Show Courtesy:** allow everyone the time and space to participate in the discussion. Don't talk over another speaker.
3. **Scope Discipline:** maintain focus on FPM.



FPM: Industry Workshop (20th August 2024)

Agenda for today's workshop

Time	Topic
10:00 - 10:05	Introduction & Housekeeping
10:05 - 10.15	Long Duration Energy Storage - Status Update
10:15 - 10:30	Future Arrangement System Services - Status Update
10:30 - 10:40	Strategic Markets Programme - Status Update
10:40 - 10.55	Scheduling & Dispatch - Status Update
10:55 - 11:50	Q & A on SDP ISEM Technical Specification
11:50 - 12:00	AOB/Close Out

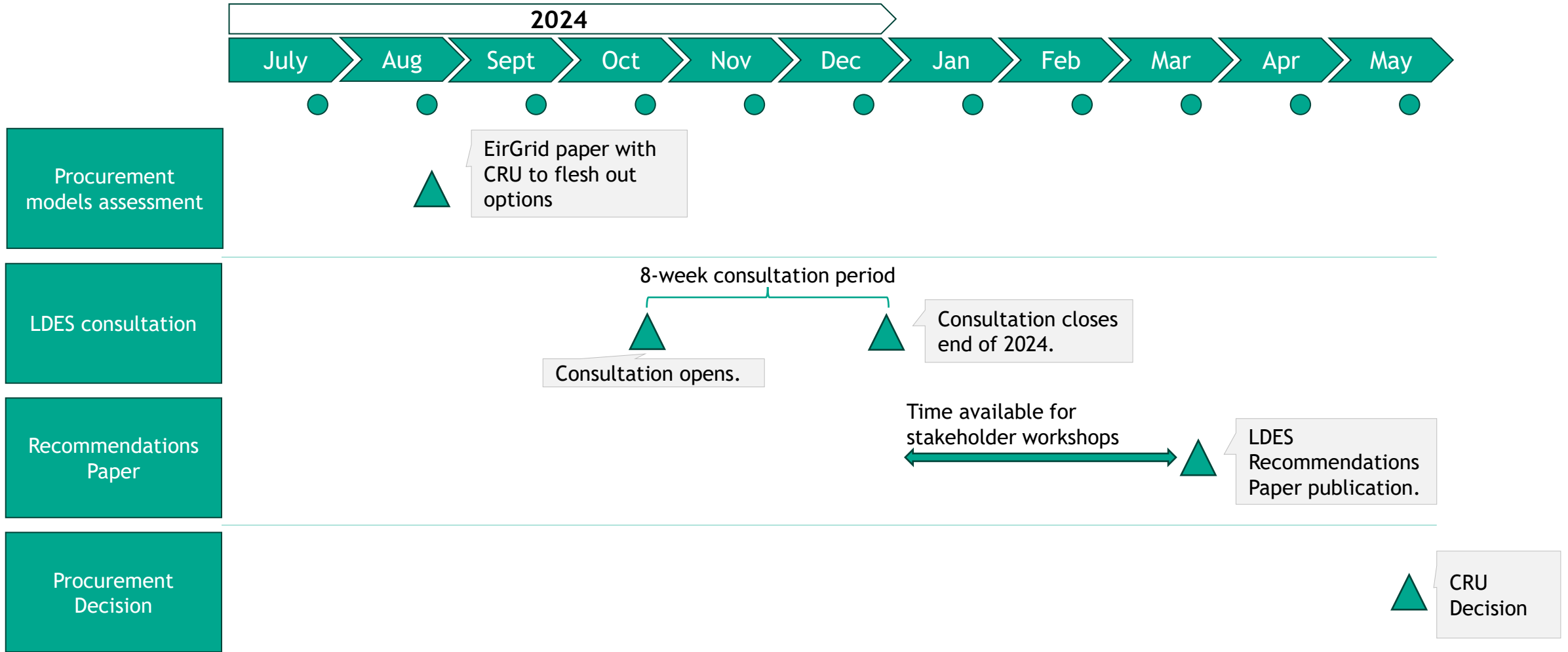
Long Duration Energy Storage (LDES)

LDES Timeline

- August (EOM): EirGrid to share a note with CRU on how the procurement models would work.
- October (EOM): Publish LDES consultation
- Nov/Dec: 8 weeks for consultation responses to be received by New Year.
- March '25 (EOM): Publish recommendations paper by end of March allowing time for stakeholder workshops.
- May '25 (EOM): Decision by end of May.
- Q4 '25: Decision by end of May.



Note: The below timeline is only for LDES procurement in the Republic of Ireland. A separate timeline for NI needs to be agreed with UR.



Key: ▲ Milestone ● Monthly CRU-EirGrid meeting

FASS Programme Update

FASS: Status Update (August 2024 Industry Workshop)

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

FASS Summary Status

Overall Status	↑	Overall status green reflecting key deliverables and milestones achieved, along with improved RA TSO engagement over the last number of weeks. Note, no critical path impacts due to DASSA Design and Code Development delays. Timely SEMC decisions still required to inform later design activities.
Schedule	↑	The programme schedule has moved to green status following the publication of the DASSA Design recommendations paper. IT Delivery timelines dependent on vendor onboard, expected before end of 2024.
Resourcing	→	TSO programme teams are staffed and engaged to continue work at pace. However, continued funding approval is required to maintain resources.
Finances	↓	Awaiting RA decision on Phase 2 Uplift and Phase 3 & 4 ROM Estimate Funding Application. Expectation that existing funding will be exhausted by summer 2024.

Key Messages



Service Provider Sentiment:

- TBC. Industry readiness survey to be issued later in calendar year which will inform High Level Readiness Approach (FASS.20).
- Service providers requesting further clarity on the bundling of system services via the product review consultation responses.



Key Activities for Immediate Action

- Funding approval
- Product Review & Locational Methodology Recommendations Paper
- SEMC Decision on DASSA Design Recommendations Paper
- RA review of Layered Procurement Framework Annual Assessment



Positive Developments (Since Last Report)

- DASSA Design Recommendations Paper submitted to RAs
- Layered Procurement Framework Annual Assessment Paper submitted to RAs
- System Services Charge Consultation Paper published



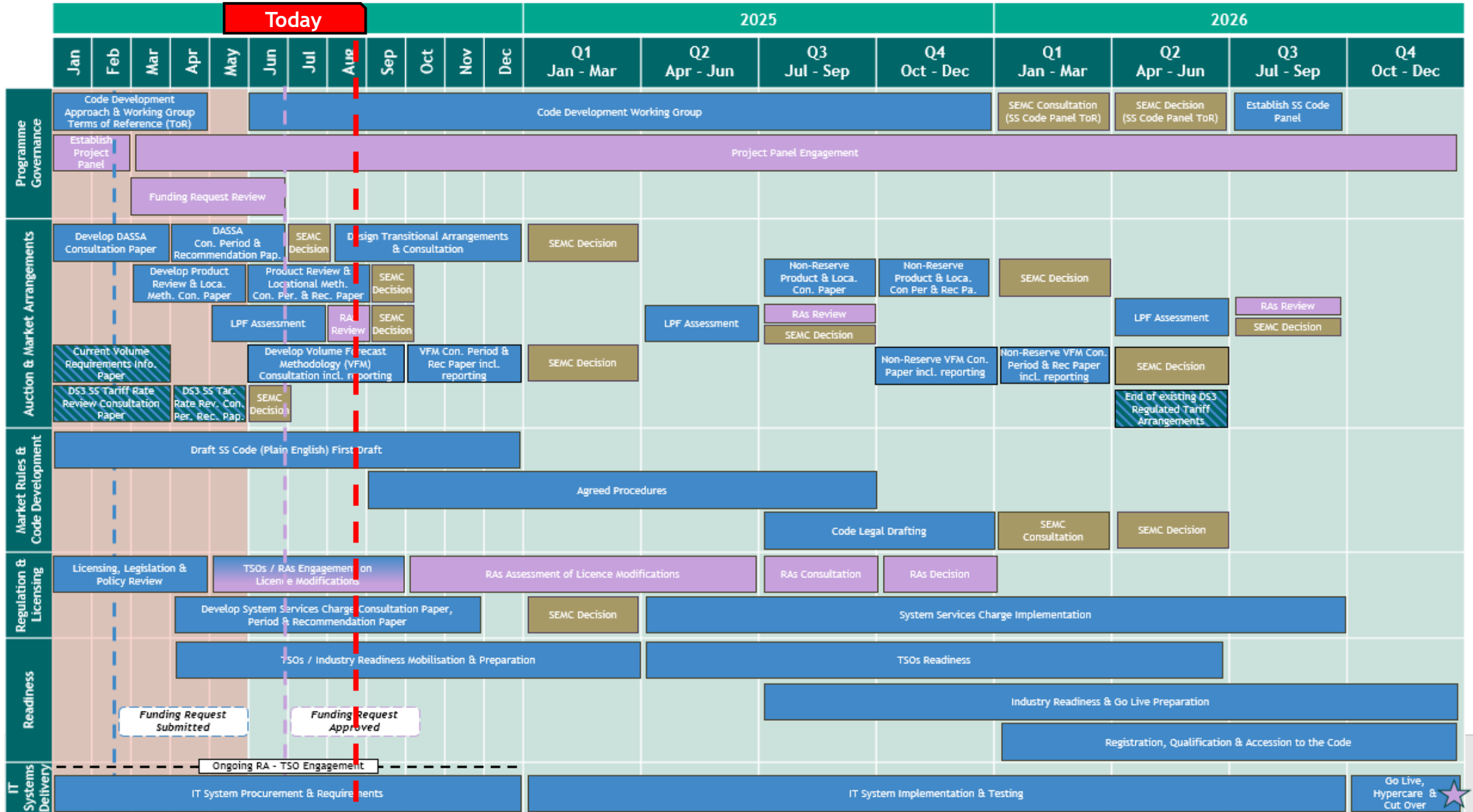
Challenges (Since Last Report)

- Funding uncertainty persists

Phased Implementation Roadmap - Level 1

Legend

- TSOs Led Activity
- SEMC Decision
- DS3 Activity
- RAs Led Activity
- RA TSOs Activity
- Depletion of Funds



Milestone Reference List



Milestone #	Milestone Description	Milestone Dependencies	Milestone Owner	Milestone Target Date	Status
FASS.01	Establish The Project Panel	-	RAs	February 2024	Complete
FASS.02	SEMC Decision On Phased Implementation Roadmap	-	SEMC	February 2024	Approved
FASS.03	Commence IT Systems Procurement	FASS.02	TSOs	February 2024	Complete
FASS.04	Publish Phased Implementation Roadmap 1	FASS.02	TSOs	March 2024	Complete
FASS.05	Publish FASS Daily Auction/Procurement Design Consultation Paper	FASS.04	TSOs	March 2024	Complete
FASS.06	Commence Detailed Requirements	-	TSOs	March 2024	Complete
FASS.07	Establish System Service Code Development Working Group ToR	FASS.04	TSOs	April 2024	Complete
FASS.08	Issue List of Proposed Licence Modifications to RAs	-	TSOs	April 2024	Closed*
FASS.09	Publish FASS Daily Auction Product Review and Locational Methodology Consultation Paper	-	TSOs	May 2024	Complete
FASS.10	FASS Programme Funding Request Approval	-	RAs	June 2024	Pending
FASS.11	Publish FASS Daily Auction/Procurement Design Recommendation Paper	FASS.05	TSOs	June 2024	Complete
FASS.12	SEMC Decision on FASS Daily Auction/Procurement Design	FASS.11	SEMC	July 2024	Pending
FASS.13	Publish Annual Layered Procurement Assessment Recommendations Paper 2024	-	TSOs	July 2024	Complete
FASS.14	Publish FASS Daily Auction Product Review and Locational Methodology Recommendation Paper	FASS.09	TSOs	August 2024	In Progress
FASS.15	Commence Grid Code Review	FASS.14	TSOs	September 2024	
FASS.16	Publish Phased Implementation Roadmap 2	FASS.04	TSOs	September 2024	In Progress
FASS.17	SEMC Decision on FASS Daily Auction Product Review and Locational Methodology	FASS.14	SEMC	September 2024	
FASS.18	SEMC Decision on Annual Layered Procurement Assessment 2024	FASS.13	SEMC	September 2024	Pending
FASS.19	Publish System Services Charge Recommendations Paper	-	TSOs	November 2024	
FASS.20	Publish High Level Readiness Approach	FASS.12	TSOs	November 2024	
FASS.21	Publish Volume Forecasting Methodology Recommendation Paper including Volumes Requirements Reporting	FASS.17	TSOs	December 2024	
FASS.22	Draft Plain English Version of SS Code	FASS.07 FASS.12 FASS.17	TSOs	December 2024	In Progress

Status of Consultations

Consultations

Status

DASSA Design	Final DASSA Design Recommendations Paper submitted to RAs end July, awaiting RA feedback before publication to industry. The TSOs and RAs are engaging closely on the recommendations paper, ahead of the SEMC decision now due end of August.
Product Review & Locational Methodology (Reserves)	Product Review & Locational Methodology consultation closed 18 th July. 17 responses received, drafting on recommendations paper underway. Expected to submit final paper to RAs by end August, with publication to follow.
System Services Charge	Consultation paper published on EirGrid and SONI consultation portals, 31 st of July. The consultation period will be open for 7 weeks, until the 18 th of September. An industry workshop will be held on the 5 th of September.
Volume Forecasting Methodology	Early analysis has commenced, informed by the Product Review & Locational Methodology workstream. On target to publish consultation paper by end of September.
Transitional Arrangements	Following the SEMC decision on the LPF Annual Assessment, the TSOs will publish a consultation on the Transitional Arrangements by December 2024. The paper will cover the transition of reserve and non-reserve products from DS3 to FASS.

Future Consultations

The TSOs will publish the next iteration of the Phased Implementation Roadmap (PIR No. 2) in September. This will provide further clarity on the timing of future consultations, TSO recommendations and SEMC decisions. The TSOs are engaging with the RAs on the PIR development.

Product Review & Locational Methodology Consultation Responses

We have received 17 responses to the DASSA Product Review & Locational Methodology Consultation Paper. Industry sentiment was assessed per question:



Majority supported topic

- Downwards Reserves
- Increased Capability for FFR Speed
- Removal of distinction between synchronised and desynchronised RR



Mixed support topic

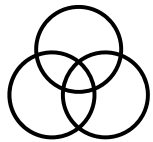
- Procure subcategories of FFR
- Locational Considerations and Assessment
- Scalar changes



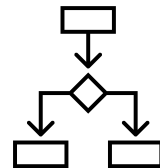
Less supported topics

- Bundled product procurement
- The generic characteristics of reserve providers

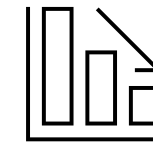
Key Themes from Consultation Responses



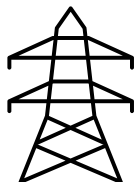
Need for greater cohesion between Auction design and Product development



Bundling Products - lack of clarity and how value will be assigned



Setting ± 15 mHz dead band capability may reduce competition and increase oscillations



Greater assessment of future network changes e.g. new N-S interconnector, Celtic, offshore



Greater clarity needed on EU alignment



Uncertainty on current regulation support, future value and Grid code changes

Thank You

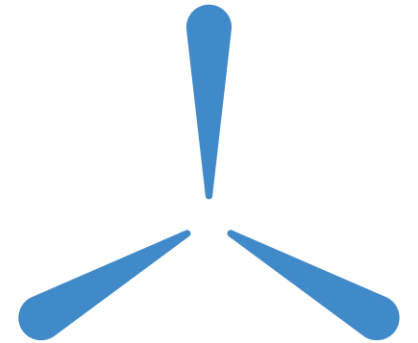
Questions can be submitted to

FASS@Eirgrid.com or
FASSProgramme@soni.ltd.uk

Next Steps:

- System Services Supplier Charge Consultation period open until **18th September**. TSOs to schedule industry workshop for the 5th of September.
- The second sitting of the **Code Development Working Group** will be scheduled upon publication of the SEMC Decision.
- TSOs to publish second iteration of the Phased Implementation Roadmap in September.

Strategic Markets Programme



Strategic Markets Programme

➤ Balancing Market Reform -

- While integration with EU platforms is an EU Policy requirement, the system changes will be to the TSOs Market Management System.
- This will involve sharing merit orders with the platforms and integrating results into our QBOA and PBOA processes.
- Other significant changes to balancing arrangement are needed in this timeframe -
 - *Enduring solution for Energy Storage Power Stations (beyond “Follow PN”);*
 - *This should include solutions for long duration energy storage (i.e., > 100 hours);*
 - *Dispatch up of demand - instructing participants to increase consumption (e.g., for electrode boilers, hydrogen electrolysers, etc.);*
 - *Enduring solution treatment of Non-Priority Dispatch Renewables (grandfathering of constraints, i.e., apply commercial offers in constraint management);*
- These additional changes are being driven by EU regulation, SEMC decisions but also operational need - these technologies are being built by participants and we need the correct tools to manage them



Strategic Markets Programme

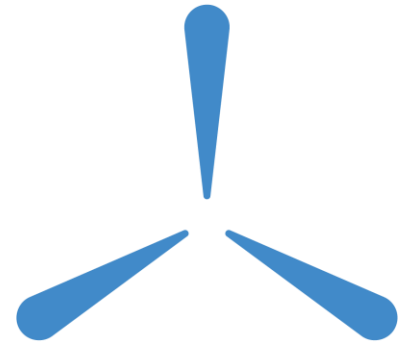
➤ Balancing Market Reform -

- At previous FPM Industry Workshop meetings, we provided high-level view of some of the topics being developed and presented proposed “day in the life” approaches
- We are proposing to use this forum to present more detailed considerations going forward
- The plan for the next few months is as below -

Topic	Workshop Date
MARI integration	11-Sep-24
Dispatchable Consumption	09-Oct-24
Operations and Market settlement for Enduring Storage units	06-Nov-24
Multi-NEMO Arrangements	TBD
Enduring solution for NPDRs	TBD



Scheduling and Dispatch Programme



Scheduling & Dispatch Programme Overview

Key Principles

For this complex programme...

1. Be **pragmatic** about solution pathways.
2. Solve the **immediate and urgent** problems at hand.
3. Don't allow perfect to be the enemy of **good**.
4. **Communicate** early and often - to all **stakeholders**.
5. Maintain **support of industry**.
6. **Actively manage** multidisciplinary delivery team.

Achievable - Valuable - "Simple"

SDP Objective & Drivers

To enhance and improve the technology and capability of scheduling and dispatch in Ireland and Northern Ireland. This is driven by market participant needs, the EU Clean Energy Package mandates, and in support of the broader goals of renewables and System Non Synchronous Penetration (SNSP) penetration targets.

- Clean Energy Package requirements - NPDR treatment
- Ireland and Northern Ireland Government renewables targets for the 80%/70% total renewable energy and 95+% system non-synchronous penetration (SNSP) on an instantaneous basis.
- Market Participant requests for certainty on treatment of renewable assets, batteries - revenue certainty.
- Market Participant requests for improvement in re-balancing and re-dispatching (prevailing weather).



Scope of SDP



One component of the broader SOEF programme.

Tranche 1: - SDP-01 Operation of Non-Priority Dispatch Renewables (NPDR)

- SDP-02 Energy Storage Power Station (ESPS) integration
- SDP-04 Wind dispatchability improvements

Tranche 1 Go Live: April 2025

Tranche 2: - SDP-03 Fast Frequency Response (FFR)

- SDP-05 Reserve services scheduling and dispatch
- SDP-06 Synchronous condenser scheduling and dispatch

Tranche 2 Go Live: October - December 2025

SDP: Status Update (August 2024 Industry Workshop)

■ As planned, no issues ↑ Improving
■ Minor - moderate concern ⇌ Steady
■ Significant issue / concern ↓ Worsening



SDP

Summary Status

Overall Status	↑	Overall programme status is Amber as Target date for Tranche 1 Modifications approval of June 2024 has not been met. Build in progress for Tranche 1 initiatives. Detailed requirements for Tranche 2 are complete. Risk related to Tranche 1 Modification approval remains open.
Schedule	↑	System vendors are tracking to plan on their builds, test preparation has started. Detailed requirements for Tranche 2 are complete. ISEM Technical Specification has been published. Target date for Tranche 1 Modifications approval of June 2024 has not been met, no immediate impact but the risk that changes will be required is present until Modifications are approved
Resourcing	→	TSO/MO programme teams are fully staffed and engaged to continue work at pace.
Finances	→	SEMC All-Island Programme sub-committee approved the full funding request for the S&D (phases 3-5) programme on 22nd March 2024.

Key Messages



MP Sentiment is Green (steady)

- MPs actively engaged and driving forward solutions
- Strong support for SDP



Key Activities For Action This Month

- Analysis of responses to consultation on SEM-13-011 changes
- ISEM Technical Specification Q&A at Industry Workshop



Positive Developments (Since Last Report)

- Consultation on SEM-13-011 changes closed
- ISEM Technical Specification Published
- Tranche 2 Detailed Requirements Complete

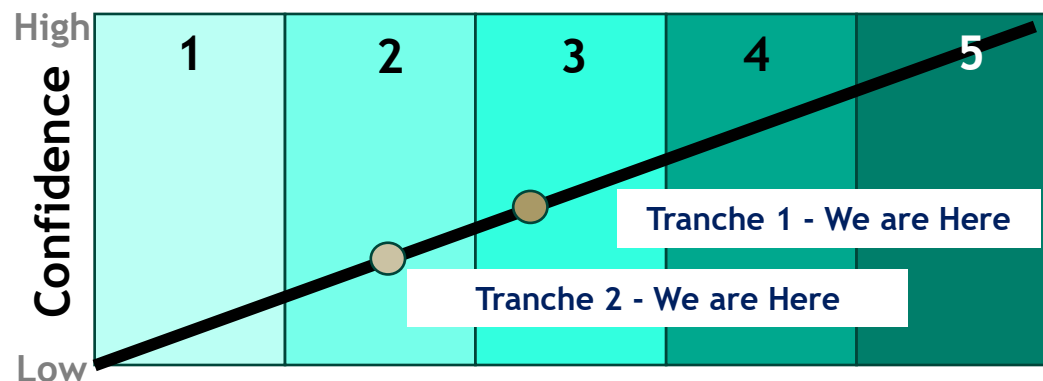


Challenges (Since Last Report)

- Target date for Tranche 1 Modifications approval of June 2024 has not been met

Scheduling and Dispatch: Phase 2 Milestones

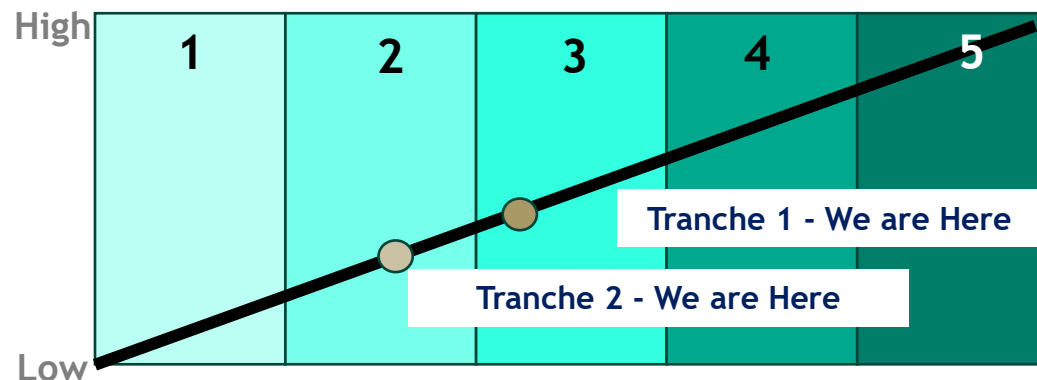
SOEF Milestone ID	Milestone	Dates
Tranche 1	Requirements Definition Complete for Scheduling and Dispatch Programme Tranche 1 Initiatives	September 2023
Tranche 1	System Design Complete for Scheduling and Dispatch Programme Tranche 1 Initiatives	March 2024
Tranche 1	TSC, CMS & GC Mods Review Complete for Scheduling and Dispatch Programme Tranche 1 Initiatives by the relevant review group (Mods Committee, Grid Code Review Panel, Capacity Market Workshops respectively)	March 2024
Tranche 2	Requirements Definition Complete for Scheduling and Dispatch Programme Tranche 2 Initiatives	July 2024
Tranche 2	Publication of milestones for Scheduling and Dispatch Programme Tranche 2 Initiatives	September 2024



We currently have an overall **low - medium** level of confidence on the timelines. Confidence levels will increase as milestones are achieved and programme progresses further into Phase 3 for Tranche 1 and Phase 2 for Tranche 2

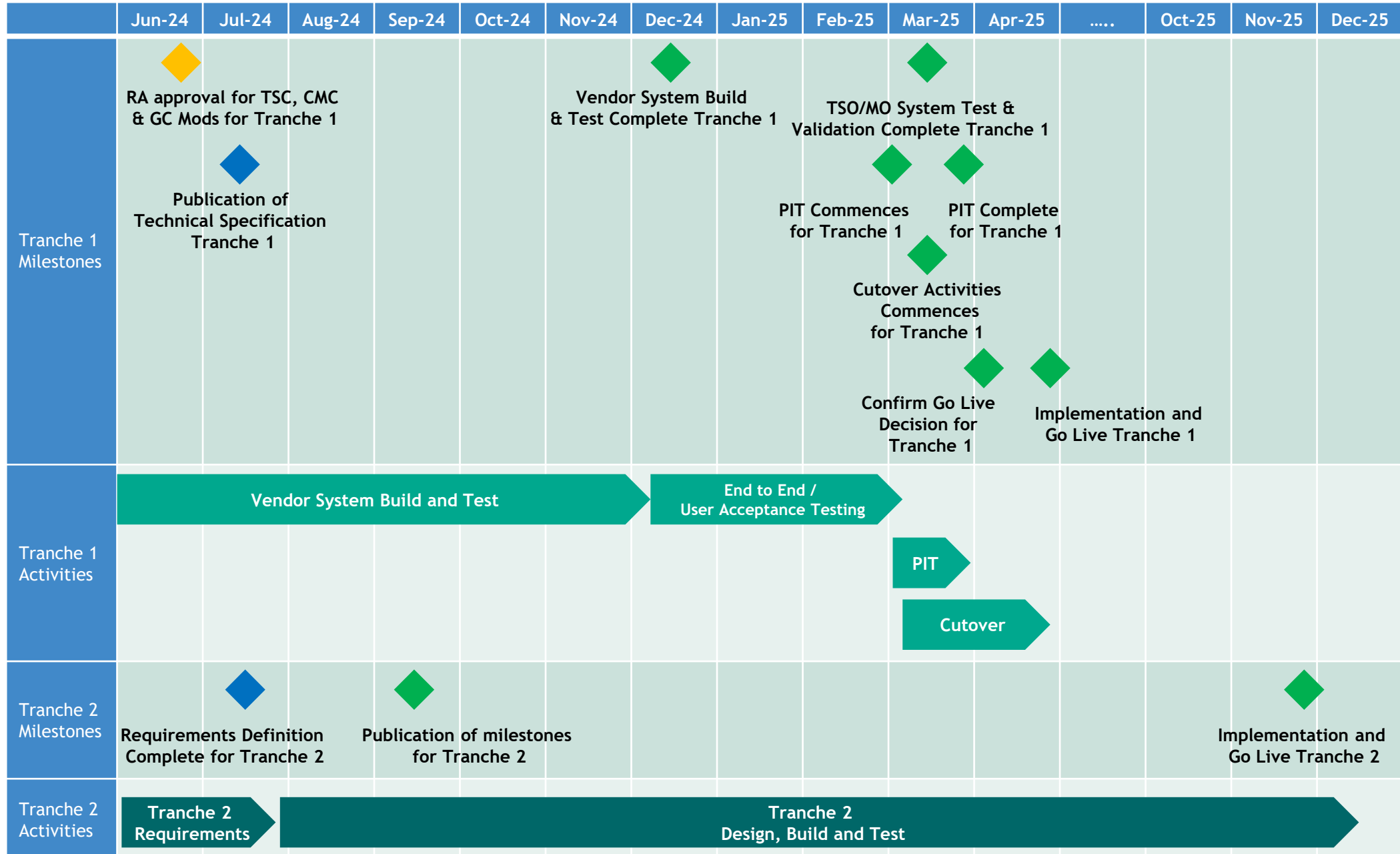
Scheduling and Dispatch: Phase 3 Milestones

SOEF Milestone ID	Milestone	Dates
Tranche 1	System Build Commenced for Scheduling and Dispatch Programme Tranche 1 Initiatives	March 2024
Tranche 1	Publication of key milestones for testing and go-live, including revised ISEM Technical Specification of Scheduling and Dispatch Programme Tranche 1 Initiatives	June 2024
Tranche 1	Regulatory Authority approval for Trading and Settlement Code (TSC), Capacity Market Code (CMC) & Grid Code Mods (GC) for Scheduling and Dispatch Programme Tranche 1 Initiatives	June 2024
Tranche 1	Publication of Technical Specification for Scheduling and Dispatch Programme Tranche 1 Initiatives	July 2024
Tranche 1	Vendor System Build and Test Complete for Scheduling and Dispatch Programme Tranche 1 Initiatives	Dec 2024
Tranche 1	TSO/MO System Test and Validation Complete for Scheduling and Dispatch Programme Tranche 1 Initiatives	Mar 2025
Tranche 1	Participant Interface Test (PIT) Commences for Scheduling and Dispatch Programme Tranche 1 Initiatives	Mar 2025
Tranche 1	Participant Interface Test (PIT) Complete for Scheduling and Dispatch Programme Tranche 1 Initiatives	Mar 2025
Tranche 1	Cutover activities Commences for Scheduling and Dispatch Programme Tranche 1 Initiatives	Mar 2025
Tranche 1	Confirm Go Live Decision for Scheduling and Dispatch Programme Tranche 1 Initiatives	April 2025
Tranche 1	Implementation and Go Live for Scheduling and Dispatch Programme Tranche 1 Initiatives	April 2025
Tranche 2	Implementation and Go Live for Scheduling and Dispatch Programme Tranche 2 Initiatives	Oct – Dec 2025



We currently have an overall **low - medium** level of confidence on the timelines. Confidence levels will increase as milestones are achieved and programme progresses further into Phase 3 for Tranche 1 and Phase 2 for Tranche 2

Scheduling and Dispatch - Milestone Plan



SDP Tranche 1 Initiatives - Modifications Status

SDP_01 Operation of Non-Priority Dispatch Renewables (NPDR)

SDP_02 Energy Storage Power Station (ESPS) Integration

SDP_04 Wind Dispatchability Improvements

Trading and Settlement Code

SDP_01 T&SC mod was recommended for approval by the Modifications Committee on 08-Feb and was sent for RA decision.

Updated SDP_02 T&SC mod was recommended for approval by the Modifications Committee on 23-Apr and was sent for RA decision.

TSO has provided inputs to RA text regarding updates to SEM-13-011 annex.

RAs issued text for public consultation between 17 June and 26 July.

Responses received and currently under analysis by RAs

Grid Codes

The SDP_01 Grid Code mod has been reviewed by the Grid Code Review Panels/Joint Grid Code Review Panel on 20-Mar.

Was recommended for approval by EirGrid panel, public consultation in NI has completed.

The SDP_02 Grid Code mod has been reviewed by the Grid Code Review Panels/Joint Grid Code Review Panel on 20-Mar.

Panel members requested more time to review, will be brought to panels in September.

SDP Tranche 1 - Participant Training Approach

- Existing SEMO Balancing Market Bidding Training Material is available on the SEMO Website.
- The page '[Balancing Market Bidding Training Course](#)' contains self-learning modules for the Balancing Market Bidding and Data Submission course.



Participant Training Workshop

The September Industry Workshop will include a Participant Training session based on the Bidding Training Course

Focus will be on

- Submitting Physical Notifications
- Submitting Commercial Offers
- Submitting Technical Offers (including forecasting)
- Overview of other areas

Training session will be last item on agenda and further details will be shared prior to the session.



Participant Sandpit Environment (CCQT Env.)

Separate to SDP, the CCQT Environment is available.

Please see [Market Message 775](#) for details

- As the SDP Tranche 1 changes are currently in build, the CCQT environment does not contain any SDP “Release N” code.
- The CCQT environment can be used to test interfacing to the current SEM Release

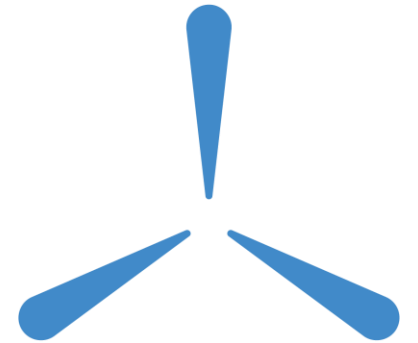
SDP is planning on facilitating Participant use of CCQT for during a set period of time in September / October

During this period SDP will

- Assist Participants in CCQT registration
- Run regular Participants support clinics

Further details will be shared in coming weeks

Q&A on SDP ISEM Technical Specifications



ISEM Technical Specification (ITS)

<p>Summary</p>	<p>Updates to Registration, Market Interface Data and Market Interface reports as a result of the Tranche 1 initiatives of the Scheduling and Dispatch Change Programme. Complete description of all the changes made will be detailed in the ISEM ITS Release 9.7, Release Notes, that will accompany this document.</p>
Area	What's New or Changed
<p>Registration</p>	<p><u>Resource Balancing:</u></p> <ul style="list-style-type: none"> • Fuel Type: No change. ESPS units to be registered as existing Battery Storage type, NPDR units to be registered as existing Wind type. • Dispatchable: Must be true for Battery Storage units. • NPDR Flag: System generated value identifying whether a unit is a Non-Priority Dispatch Renewable based on Priority Dispatch, Dispatchable and Controllable registration flags. This value is used to determine appropriate data validations for market participant data submissions (as will be fully detailed in ITS) and will not be visible within the MPI.
<p>Balancing Market Trading</p>	<p><u>Commercial Offer Data:</u></p> <ul style="list-style-type: none"> • Forecast Element: Battery Storage and Non-Priority Dispatch Renewable units can provide Forecast Availability, Forecast Minimum Stable Generation and Forecast Minimum Output. • Battery Storage Parameters (mandatory for Battery Storage units) <ul style="list-style-type: none"> ○ Operational Maximum Storage ○ Operational Minimum Storage • Startup Costs (Hot, Warm, Cold): Must be 0 for all Battery Storage and Non-Priority Dispatch Renewable units • No Load Costs: Must be 0 for all Battery Storage and Non-Priority Dispatch Renewable units <p><u>Generator VTOD Data:</u></p> <ul style="list-style-type: none"> • Block Loading Flag: Must be “false” for Non-Priority Dispatch Renewables and Battery Storage units. • Minimum Stable Generation: Must be 0 for Non-Priority Dispatch Renewables and Battery Storage units • Energy Parameters (for Battery Storage units only) <ul style="list-style-type: none"> ○ ESPS Storage Cycle Efficiency <p><u>Physical Notifications:</u></p> <ul style="list-style-type: none"> • Curve Type: Must be A01 (Stepwise) for Non-Priority Dispatch Renewables units. Must be A04 (piecewise) for Battery Storage units. • From MW / To MW: Must be ≥ 0 for Non-Priority Dispatch Renewables but not for Battery Storage units

ISEM Technical Specification (ITS)

Summary	Updates to Registration, Market Interface Data and Market Interface reports as a result of the Tranche 1 initiatives of the Scheduling and Dispatch Change Programme. Complete description of all the changes made will be detailed in the ISEM ITS Release 9.7, Release Notes, that will accompany this document.
Area	What's New or Changed
Trading Reports	<p><u><i>RTD Merit Order List Schedule (REPT_004)</i></u></p> <ul style="list-style-type: none">• Member Private report containing cost curve and current dispatch information for units registered to each participant• Covers both incremental and decremental merit orders in same report• Will be produced on a 5 minute frequency following approval of each RTD run (similar to existing RTD Operational Schedule report) <p><u><i>Forecast Imbalance Report (REPT_042)</i></u></p> <ul style="list-style-type: none">• Separation of field TSO Renewable Forecast into TSO Renewable Forecast (Priority Dispatch) and TSO Renewable Forecast (NPDR)• Update to Calculated Imbalance calculation<ul style="list-style-type: none">○ Calculated as: TSO Demand Forecast - [Total PN + Net Interconnector Schedule + TSO Renewable Forecast (Priority Dispatch)]○ TSO Renewable Forecast (NPDR) is not included within the calculated as the PN volumes for Non-Priority Dispatch Renewable Units will already be included in the Total PN value. <p><u><i>Daily Technical Offer Data Report (REPT_011)</i></u></p> <ul style="list-style-type: none">• Additional field<ul style="list-style-type: none">○ ESPS Storage Cycle Efficiency <p><u><i>Commercial Offer Data Report (REPT_013)</i></u></p> <ul style="list-style-type: none">• Additional fields<ul style="list-style-type: none">○ Operational Minimum Storage○ Operational Maximum Storage

SEMO Data Publication Guide (DPUG)

Summary	<p>Scheduling and Dispatch Change Programme related Balancing Market Publication Detail changes for the following reports:</p> <ul style="list-style-type: none"> • BM-014: Forecast Imbalance Report • BM_032: Daily Technical Offer Data Report • BM_034: Commercial Offer Data Report <p>Further changes related to general document clean-up.</p>
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Area	What's New or Changed
Balancing Market Data	<p><u><i>Forecast Imbalance Report (BM-014)</i></u></p> <ul style="list-style-type: none"> • Separation of field TSO Renewable Forecast into TSO Renewable Forecast (Priority Dispatch) and TSO Renewable Forecast (NPDR) • Update to Calculated Imbalance calculation <ul style="list-style-type: none"> ○ Calculated as: TSO Demand Forecast - [Total PN + Net Interconnector Schedule + TSO Renewable Forecast (Priority Dispatch)] ○ TSO Renewable Forecast (NPDR) is not included within the calculated as the PN volumes for Non-Priority Dispatch Renewable Units will already be included in the Total PN value. <p><u><i>Daily Technical Offer Data Report (BM-032)</i></u></p> <ul style="list-style-type: none"> • Additional field <ul style="list-style-type: none"> ○ ESPS Storage Cycle Efficiency <p><u><i>Commercial Offer Data Report (BM-034)</i></u></p> <ul style="list-style-type: none"> • Additional fields <ul style="list-style-type: none"> ○ Operational Minimum Storage ○ Operational Maximum Storage <p><u><i>General Document Clean-Up</i></u></p> <ul style="list-style-type: none"> • Revised descriptions for various reports • Formatting changes

EDIL - Dispatching Web Client Updates

DWC Operation Tab - Dispatch Instructions

INSTRUCTIONS RECEIVED												
		.../-24 h		Accept		Reject		Cancel Ok				
Unit	Type	Entered	T	Gen	Exp	Unit	Effective Time	Issue Time	V	U	Note	Status
MZ1	RESON						13-MAY-24 14:00	13-MAY-24 13:58			MW Load	Transmitted
MZ1	MWOF			-40.123	-40.123	MW	13-MAY-24 14:00	13-MAY-24 13:58			MW Load	Transmitted
MZ1	SYNC						13-MAY-24 14:00	13-MAY-24 13:58			MW Load	Transmitted

- In DWC Operation Tab , the user can accept/reject MWOF Instructions with negative and decimal values in the Instructions Received list provided those units are configured to support negative and decimal MW (i.e. are ESPS units).
- The instruction can be accepted/rejected by using the Accept or Reject buttons or by the ‘a’ or ‘r’ Quick Codes as per current EDIL functionality
- User can also acknowledge a cancelled instruction using the Cancel Of button or by using the ‘xok’ Quick Code

DWC Dispatch Tab - Dispatch Instructions

ELECTRICITY EXCHANGE - USM/ee_usm												14-MAY-24 14:31:09	
13-MAY-24 20:07: Broken for 629m 47s												TARGET FREQUENCY: 50.00 Hz	
Operation	Dispatch	Report	Metrics	Event	Moyje	EWIC						Message	
Unit	Fuel	Max	Min	MW	MW	MVAr	SYNC	RES	GOP	SCM	Other	C Mode	Message
VN1	DSU	1	1	0	0		DESY				DECLFSY		
DK1	BAT	50	1	0	0		SYNC	ON					
MZ1	BAT	50	1	40	-40.123		SYNC	ON					
GP1	BAT	9	1	0	0		SYNC	ON					
LF1	BAT	46	1	0	0		DESY	OFF					
PN1	BAT	30	1	0	0		SYNC	OFF					
KZ4	BAT	27	1	0	0		SYNC	ON					
XT2	BAT	11	1	0	0		DESY	ON					
KZ3	DIST	2	1	0	0		DESY				DECLFSY		
EE1	DSU	15	1	0	0		DESY						
EE2	DSU	7	1	1	1		SYNC						
EE3	DSU	1	1	1	1		SYNC						
EE4	DSU	1	1	1	1		SYNC				DECLFSY		
EE5	DSU	8	1	1	1		SYNC						
EE6	DSU	10	1	0	0		DESY						
EE7	DSU	1	1	0	0		DESY						
EE8	DSU	6	1	0	0		DESY						
EE9	DSU	1	1	0	0		DESY						
VS1	DSU	2	1	0	0		DESY						
VS2	DSU	3	1	1	1		SYNC						

- In DWC Dispatch Tab , the user can accept an individual instructions including negative and decimal MWOF
- Additionally, the user can accept all instructions user the Acc All button as per current functionality

EDIL - Dispatching Web Client Updates

DWC Operation Tab - AVMW Declarations

Unit GF1 Status New Effective Time
 Type AVMW (DECL) Reason FZ 01-OCT-24 14:00

Declare Clear Reject Ok

Comment: Demo Reason: FZ

Unit	Type	Fuel	Gen	New	Exp	New	Effective Time	CD	N	Status
GF1	MDMW	BAT	50		50		05-MAR-24 08:00	No	...	Accepted
GF1	MNMW	BAT	1	-40	1	-40	01-OCT-24 14:00	FZ		Proposed

- In DWC Operation Tab , the user can view any existing AVMW declarations as well as submit new AVMW declarations with negative values for units configured to do so (i.e. ESPS units)
- The Quick OFF (XF) button automatically sets all availability parameters associated with the chosen Unit to zero or not available.
- The Quick ON (XN) button automatically sets all availability parameters associated with the chosen Unit to the values that existed before the last Declaration thereby ‘undoing’ the last Declaration.

DWC Operation Tab - NP Declarations

Unit GF1 Status View Existing Effective Time
 Type NP (DECL) Reason FZ 01-NOV-24 22:30

Declare Clear Accept Reject Reject All Reject Ok Accept/Inst

Comment: Demo

Unit	Type	Fuel	Gen	New	Exp	New	Effective Time	CD	N	Status
GF1	PMXMW		50		50		19-FEB-00 00:00	No	I...	Accepted
GF1	PMNMW		-40		-40		01-NOV-24 22:30	FZ	...	Accepted
GF1	RPT		-40		-40		01-NOV-24 22:30	FZ	...	Accepted
GF1	EAF1				1.0		19-FEB-00 00:00	No	I...	Accepted
GF1	EAF2				0.0		19-FEB-00 00:00	No	I...	Accepted
GF1	PMXLD		999.0				19-FEB-00 00:00	No	I...	Accepted
GF1	PMXLG		999.0				19-FEB-00 00:00	No	I...	Accepted

- In DWC Dispatch Tab , users can also view negative PMNMW and RPT declarations which were declared for units

EDIL - Dispatching Web Client Updates

DWC Reports Tab

Query Type	Data Available Data Source	Attribute Change Note
CONTRACTS	Contract values - External Users edil.H_DECLARATION where DECL_CAT_TYPE_ID = 1 (Contract)	Extend range for 'ValueGen' and 'ValueExp' to output negative MW
DECLS	Declared values - External Users edil.H_DECLARATION where DECL_CAT_TYPE_ID = 2 (Declaration)	Extend range for 'ValueGen' and 'ValueExp' to output negative MW
DISP INST	Dispatch Instructions - External Users edil.H_DISPATCH_INSTRUCTION	Extend range for 'Value' and 'Exp Value' to output negative MW and up to 3 decimal places
UNIT	Unit details - External Users edil.UNIT	New 'AllowNegativeMW' and 'AllowDecimalMW' attributes to be included, reflecting new system identifiers for which units (i.e. ESPS) can have negative and decimal values

Queries received since last FPM Industry Workshop

Q: How frequently will Forecast Availability/Forecast Minimum Stable Generation/Forecast Minimum Output need to be submitted via the MPI? If Optional, can it be updated multiple times during the same trading day?

- 1** **A:** These 3 fields form part of a unit's Complex Commercial Offer Data (COD) set. Once registered, Standing (Default) data must be submitted for every dispatchable generator units (including ESPS and NPDR), which is then converted to Trading Day Data as each BM Gate Window opens (D-19). Submission of updated generator offers for a unit is optional and can be done as many times as the participant wishes whilst the BM window is open for the trading period in question.

Q: How frequently will the ESPS Storage Cycle Efficiency value need to be submitted/updated?

- 2** **A:** This field will be added to the Validation Technical Offer Data (VTOD) set. Once registered, at least one set of VTOD must be submitted and approved for every dispatchable generator unit (including ESPS and NPDR). The cycle efficiency field will be available only for ESPS units and will be mandatory as part of this submission. Up to 6 sets may be submitted and updated as many times as the participant wishes. For each Trading Day, the participant can submit a VTOD choice file indicating which VTOD set they wish to be used for said day (Defaults to set 1 if none chosen)

Q: Will a PD Renewable be able to forego its PD status (due to whatever reason) after the SDP has been implemented?

- 3** **A:** Yes - In alignment with [SEM-20-072](#), PD Renewable units can forego their PD status should they choose to do so. From a systems perspective, the unit will be converted to an NPDR, retaining its GU name. This conversion process will be initiated through submission of a request form to EirGrid, details of which to be shared on the next Industry Workshop.
Note: This conversion is a one-way process only, NPDR units will not be permitted to return to PD status.

Queries received since last FPM Industry Workshop

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Q: The New go-live date for the 30 Minute MTU has been moved to 18th March 2025 will this have any influence on the go live timelines for Tranche 1 of the Scheduling and Dispatch.

A: From a systems perspective, I can confirm that the 30Min MTU go-live wont impact SDP go-live (note here that the system functionality for 30min MTU was delivered to MMS in the previous release).

5

Q: In relation to SDP-04 Wind dispatchability improvements, can SEMO provide us with any update in relation to the expected frequency with which rebalancing might occur, e.g. half hourly, hourly or a certain number of times per day.

A: In order to maintain system security, rebalancing will take place at the discretion of the grid controller. There are no set intervals at which rebalancing will take place. A continuously refreshing value will be displayed to the Grid Controller showing the scope for rebalancing, i.e. the absolute difference between the current setpoints and what the rebalanced setpoints would be. If this value shows a need for rebalancing and it is secure to do so, the grid controller will initiate rebalancing and new setpoints will be generated

6

Q: Will DeMinimus units producing power since July 2019 will be required to be non-priority dispatch units and thus become market registered ?

A: There will be no change to how non-market generators are treated as a result of the Scheduling and Dispatch Programme.

Stakeholder Engagement: FPM Industry Workshop

Contacting FPM Programmes

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

Contact



SDP Queries

SchedulingandDispatch@Eirgrid.com
SchedulingandDispatch@soni.ltd.uk

LDES Queries

LDES@Eirgrid.com
LDESProgramme@soni.ltd.uk

FASS Queries

FASS@Eirgrid.com
FASSProgramme@soni.ltd.uk

SMP Queries

SMP.PMO@Eirgrid.com

FPM Policy

FuturePowerMarkets@Eirgrid.com
futurepowermarketsNI@soni.ltd.uk

Information to Provide

- Your Name
- Your email & phone number
- Your organisation
- Topic of Issue/Query & Programme Name
- Description of the issue or query
- Any additional information to aid in understanding the issue or query
- *(No requirement to email the same query to both EirGrid and SONI email addresses for a relevant programme)*

Future Power Markets: Future Workshop Schedule

Date	Time	Location
11 September 2024	TBC	Dundalk
09 October 2024	TBC	Belfast
06 November 2024	TBC	Dublin
04 December 2024	TBC	Dublin


Future Discussion Topics

- SDP
 - Participant Training Workshop
 - Ongoing NPDR designation process updates
 - Tranche 2 Overviews
 - Tranche 2 Delivery Milestones
- LDES
 - Continuing to liaise with the RAs and Departments on next steps
- FASS
 - DASSA Design Recommendations - updates
 - Product Review & Locational Methodology Recommendations - updates
 - System Services Supplier Charge consultation - workshop on paper
 - Code Development Working Group - ongoing updates
- SMP
 - Additional details on functional approach
 - Overview of functional impacts of EU Reintegration on SEM Market Participants
 - Additional topics TBD based on feedback
- EMP
 - TBD