

Future Power Markets

Stakeholder Engagement

Industry Workshop:

11th of December 2025

Location: Online (Microsoft Teams)

Time: 09:00-10:15





EirGrid

SONI

semo
Single Electricity
Market Operator






Welcome!



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Future Power Markets - Industry Workshop

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



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Future Power Markets Industry Workshop

Agenda

| Time | Segment/Programme | Topic Detail |
|---------------|--|---|
| 09:00 - 09:05 | Introduction & Housekeeping | An intro to the agenda and meeting guidelines |
| 09:05 - 09:20 | Scheduling & Dispatch Programme (SDP) | A general programme update |
| 09:20 - 09:35 | Future Arrangements for System Services (FASS) | A general programme update |
| 09:35 - 09:45 | Strategic Markets Programme (SMP) | A general programme update |
| 09:45 - 09:55 | Energy Market Policy (EMP) | A general programme update |
| 09:55 - 10:00 | Long Duration Energy Storage (LDES) | Procurement Consultation Update |
| 10:00 - 10:10 | AOB & Concluding Remarks | All other business, closing remarks |
| 10:10 | Event Close | |



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Scheduling & Dispatch Programme (SDP)



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Scheduling and Dispatch - Status



SDP

Summary Status

| | | |
|----------------------|--|---|
| Overall Status | | SDP-02 (ESPS) and SDP-04 (WDI) go-lives successfully delivered on 11 th and 26 th November, as planned. RAs and SEMC assessment of Mod_13_23 Treatment of NPDRs is continuing. The programme is undertaking a planning activity to support Tranche 2 delivery. Current estimated go-live dates are mid-2026. |
| Schedule - Tranche 1 | | <p>SDP-02 Energy Storage Power Stations (ESPS) SDP-02 (ESPS) system and market participant go-live was successfully delivered on the 11th (system go-live) and 12th November (market participant go-live), as planned. ESPS units are now functional in the market as 'Battery Storage' fuel type. SDP Programme is engaging with ESPS unit operators on post go-live queries and feedback. 'Overview of SDP Solution for Battery Units V2.0' document was published on 5th November.</p> <p>SDP-04 Wind Dispatch Improvements SDP-04 (WDI) go-live was successfully delivered on 26th November, as planned. There was no market release associated with the SDP-04 (WDI) go-live. Market participants were not required to take any action to support SDP-04 go-live. RA approval on the definition of rebalancing received on 19th November and 'Guide to Rebalancing' was published on 20th November.</p> <p>SDP-01 Non-Priority Dispatch Renewables 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.</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). To progress this initiative, the RAs and TSOs are taking the following steps:</i></p> <ul style="list-style-type: none"><i>• January: TSOs and RAs to hold a series of workshops to reaffirm shared objectives, ensure alignment and review modelling approach.</i><i>• Following this: TSOs will undertake modelling to inform decisions on Mod_13_23 and SEM-24-044.</i><i>• February: TSOs intend to host an industry workshop to provide clarity on progress and next steps, subject to above activities</i> <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 mid-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. |

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Future Arrangements for System Services (FASS)



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FASS: Programme Summary Status

As planned, no issues

Minor - moderate concern

Significant issue / concern

Improving

Steady

Worsening

| FASS Summary Status | | | |
|---------------------|--|---|--|
| Overall Status | | <ul style="list-style-type: none">Overall programme status remains red.Confidence in programme timeline is low due to critical path challenges and viability of programme roadmap needs to be assessed. | <div><div>Path from red to Amber</div><ul style="list-style-type: none">Agreed schedule and alignment on scope of non-reserve services consultation paper and mobilisation of test environments. Confirm 'Day One' DASSA Design through SEMC Decision for Parameters & Scalars when published.<div>Path from amber to Green</div><ul style="list-style-type: none">Commitment from IT vendors to work to deliver on changes to scope based on SEMC P&S Decision. Onboarding of credit management vendor.</div> |
| Schedule | | <ul style="list-style-type: none">Red status. Publication of non-reserves consultation c. 6 months behind schedule. RA/TSO engagement needed to progress challenges.Schedule for procurement of Secondary Trading Credit Management solution remains challenging.License modifications timelines to be re-baselined to account for delays. This risks consequential delay to consultation on System Services Code.Clarification of programme critical path required in order to deliver on PIR V4.0. | |
| Resourcing | | <ul style="list-style-type: none">Moved to amber: 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. | |
| Finances | | Formal funding approval letter received from the RAs December 2024. | |

| Workstream Updates | |
|------------------------------------|---|
| DASSA Design | Schedule remains challenging due to multiple ongoing design activities. SEMC decision on Parameters & Scalars made in November SEMC, with publication of decision due this month. Credit Management PQQ closed 28/11 and evaluation underway. |
| Design of Non-Reserve Arrangements | Non-reserve services' product design, locational methodology and volume forecasting methodology consultation paper drafted and available to publish post alignment with RAs on scope. RA/TSO engagement ongoing. |
| IT Systems Design | Continuing to track red due to delay in mobilisation of vendor test environments. Detailed Design progressing where possible, however further progression dependent on outcome of SEMC P&S decision paper. |
| Regulation & Licencing | RA/TSO workshops recently held on progression of licence modifications and associated consultations. Exact timelines remain unknown and risk of impact to programme critical path. |
| SS Code Development | Status moving to red as workstream moves onto programme critical path. Preparation is underway to have Version 3 of PEV published by year end. Requirements and schedule for PEV Version 4 will be outlined in next iteration of the PIR. |

FASS: Status of Business Design Papers

- Phased Implementation Roadmap (PIR) V3.0 was published on the 5th of June following agreement with the RAs.



Open Design Activities

Parameters & Scalars

Non - Reserve Services

Status

SEMC Decision on Parameters & Scalars made in November SEMC. Decision due to be published in December.

Consultation Paper Drafted



Closed Design Activities

DASSA Top Up
(Residual Availability Determination)

DS3 SS Tariffs to FASS
(The Gap)

Volume Forecasting
Methodology (Reserves)

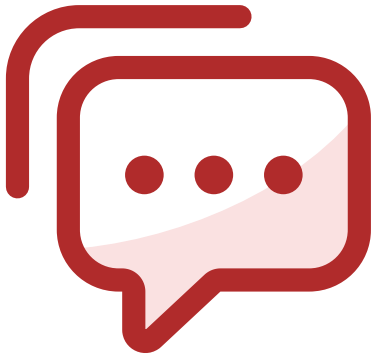
Status

Closed.
SEMC Decision published

Closed.
SEMC Decision published

Closed.
SEMC Decision published

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Strategic Markets Programme (SMP)



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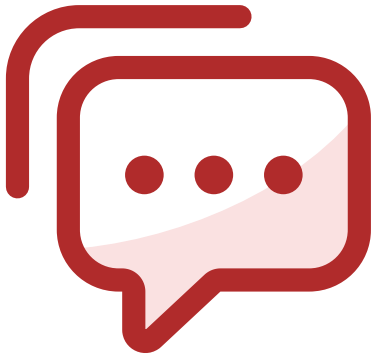


SMP Summary Status

| | |
|--------------------------|--|
| Overall Programme Status | The Strategic Markets Programme is EirGrid's project to re-integrate SEM with EU markets via the Celtic Interconnector. The replanning of SMP for commercial Go-live of the interconnector in Q1 2028 is being discussed with relevant European partners and NRAs. In 2024 SEM joined the Core region and EirGrid became full members of the CORE Regional Cooperation Centre (RCC). |
| EU Integration | EU interconnector capacity will be calculated across the CORE region according to agreed methodologies with Core Region interconnector capacity allocated implicitly in the coupled EU markets, SDAC, SIDC and explicitly via FTRs. So, we are moving from a situation today where there is no interconnection with the EU and both Day-Ahead and Intraday markets are local even if SEM is still technically coupled at the day ahead stage, but with no EU cross-border capacity allocation. |

SMP EU Integration Pillar Updates

| | |
|---------------|--|
| Core CCR | Amended methodologies for capacity calculation in the CORE region for Long-Term, Day-Ahead, and Intraday timeframes will be sent to the NRAs for approval. These amendments are mainly to reflect the addition of a new border, SEM-FR, alongside other relatively minor changes. EirGrid and SONI will implement a new system (Core Hub) to interface with the central Core Capacity Calculation tool (CCCT) as well as changes required to EirGrid's existing Market, Interconnector and Energy Management Systems (MMS, ICMP & EMS). The central CCCT calculates and sends flow-based capacity domains covering each Bidding Zone to the Day-Ahead and Intraday markets for allocation. The CCCT also interfaces with the EU Intraday Continuous market (XBID). The detailed requirements for these systems have been finalised, allowing EirGrid to deliver these solutions for testing in 2026. |
| SDAC/SIDC | The delivery of the Core Hub and required existing system changes are crucial for the delivery of SMP and will enable us to begin external market testing in 2027. Technical go-lives in both SDAC and SIDC are planned to begin in 2027 with no capacity allocated on Celtic until commercial go-live in early 2028. |
| FTRs | Participants can bid for monthly or yearly auctions. First monthly auction will be released after successful operation of Celtic IC - Q2/3 2028. EirGrid and RTE are working with the appointed Single Allocation Platform, Joint Allocation Office (JAO), on the enablement of FTR auctions for the SEM-FR border. Note that the 'Celtic Programme' was recently formally initiated by JAO and the TSOs. |
| Coreso/Cornet | CORES0 plays a central role in capacity calculation and market coupling through a number of RCC tasks which all have individual numbers (both IT and non-IT). A new capacity calculation region CORE CE is being developed by both relevant RCCs, CORESO and TSCNET. A number of the RCC tasks are to be developed by a joint project of the two, CORNET. Work is ongoing in the team to deliver the various RCC tasks and some are at a more advanced stage of implementation than others. |



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Energy Markets Policy (EMP)



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Energy Market Policy: Status Update

CACM 2.0

- Progress has been delayed. Likely to go well into 2026
- Member States sent comments on Recast CACM and SOGL

FCA 2.0

- Timeline continues as expected
- ENTSO-E Market Integration Working Group Meeting held Nov 4&5

Post Brexit Market Arrangements

- **Member States have instructed the EC to draw a mandate for negotiations on UK Trading Arrangements by end of 2025**
- **Specialised Committee on Energy Meeting**
 - UK & EU RAs provided an informal opinion on the MRLVC Report
 - TSOs have requested to publish a non- confidential report on MRLVC by end of year

Energy Market Policy: Multi Region Loose Volume Coupling (MRLVC) Update



Joint TSO-Work on MRLVC continues to progress under the direction set out in the Common Understanding



Full effort to deliver ongoing obligations on MRLVC



Report is currently being reviewed for confidentiality, and a non-confidential version is due to be published in the near future.



Work is continuing on exploring full price coupling with the IEM across all timeframes

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Long Duration Energy Storage (LDES)



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LDES: A procurement consultation update



Consultation on Procurement Approach concluded

- 38 Responses Received



Ongoing Assessment Underway

- Detailed Insights and Considerations



Target to deliver a recommendation paper & enable a CRU decision paper by end of Q1 2026



Target to deliver a contractual consultation paper in Q2 2026

- Dependency on above CRU decision

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Thank You!





Future Power Markets Workshops 2026



| Dates | Location |
|--------------------------------------|----------------------------------|
| Tuesday, 27 th January | In person, Europa Hotel, Belfast |
| Wednesday, 25 th February | Online |
| Wednesday, 25 th March | In person, Dublin |
| Wednesday, 22 nd April | Online |
| Wednesday, 20 th May | In person, Dublin |
| Wednesday, 24 th June | Online |





Contacts & Acronyms & Abbreviations



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Stakeholder Engagement: Contacting Future Markets Programmes

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

Contact



SDP Queries (Scheduling & Dispatch Programme)

SchedulingandDispatch@Eirgrid.com

SchedulingandDispatch@soni.ltd.uk

LDES Queries (Long Duration Energy storage)

LDES@Eirgrid.com

LDESProgramme@soni.ltd.uk

FASS Queries (Future Arrangements for System Services)

FASS@Eirgrid.com

FASSProgramme@soni.ltd.uk

SMP Queries (Strategic Markets Programme)

SMP.PMO@Eirgrid.com

FPM Overall and EMP (Energy Market 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)*

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