# Future Power Markets

# Stakeholder Engagement

Industry Workshop: 21st August 2025

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





# **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.



# Improving Our Engagement: Slido Q&A

- Please ask your questions as early as possible. Our teams may need time to provide a full answer.
- Please provide your name and organisation.
- The FPM workshop is not the place to challenge the actions of individual parties (other than EirGrid/SONI), and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketmonitoring@eirgrid.com
- Questions will be answered in the upvoted order whenever possible. We will take questions from further down the list when: the answer is not ready; we need to take the question away or the topic is outside of the scope of the FPM.
- Sli.do will remain open after the meeting ends, even when the call closes earlier, to provide the maximum opportunity for you to ask questions. After that please use the email options below.
- Please ask questions using the Slido found at the QR code:

Ask questions anytime whether for inclusion in the forum or individual response at: <a href="mailto:FuturePowerMarkets@Eirgrid.com">FuturePowerMarkets@Eirgrid.com</a>
<a href="mailto:futurepowermarketsNI@soni.ltd.uk">futurepowermarketsNI@soni.ltd.uk</a>









# **FPM - Industry Workshop**

# **Setting Expectations**



# Meeting Guidelines

# 1. Engage Fully:

- This session is for you!
- Actively listen and ask questions when appropriate.

# 2. Be Respectful:

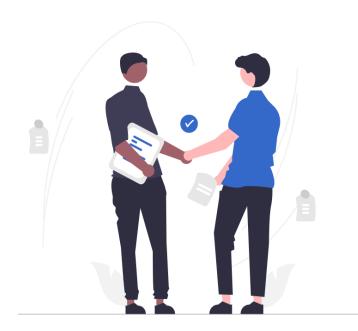
- Don't interrupt or talk over others.
- Allow everyone the time and space to participate in the discussion.

## 3. Stay on Topic:

- Keep the discussion focused on Future Power Markets programme.
- Save unrelated questions or comments for follow-up.

#### 4. Be Time-Aware:

Questions are welcome but will be time-limited.





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# Scheduling & Dispatch Programme (SDP)

# Scheduling and Dispatch - Programme Summary Status

As planned, no issues	$\bigcirc$	Improving
Minor - moderate concern	$\; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; $	Steady
Significant issue / concern	$\triangle$	Worsening

<b>★ SDP</b>	Summary Status
Overall Status	Programme is progressing test execution and detailed planning activity to support the go-live of SDP-02 (ESPS) on 11-Nov-25 and SDP-04 (WDI) on 26-Nov-25. The programme is assessing the delivery schedule of SDP-01 (NPDR) and Tranche 2 initiatives. RAs and SEMC assessment of Mod_13_23 Treatment of NPDRs is continuing.
Schedule Tranche 1	SDP-02 Energy Storage Power Stations (ESPS)  Programme targeting go-live of SDP-02 (ESPS) on 11-Nov-25. Programme is progressing test execution in line with delivery plan. SDP-02 Participant Interface Testing (PIT) is scheduled to reopen w/c 22-September-25 with further details being shared with ESPS unit operators directly. ESPS solution operational document is being progressed and Programme aims to share this with market participants in mid-September. Programme will also provide information to ESPS unit operators on the SDP-02 cutover plan and market participant data requirements for cutover.  SDP-04 Wind Dispatch Improvements  Programme targeting go-live of SDP-04 (WDI) on 26-Nov-25. Programme is progressing test execution in line with delivery plan. Further information on the SDP-04 initiative for market participants is being developed by SDP Programme.  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. The programme is assessing the delivery schedule of SDP-01 (NPDR).  Programme is progressing additional QA of NPDR unit findings before engaging market participants to communicate findings.
Schedule Tranche 2	The TSOs and RAs are working on progressing T&SC modification Mod_01_25 related to SDP-06 Synchronous Condensers for presentation to the SEMC. The programme is assessing the delivery schedule for Tranche 2.
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.







# Battery PN Feasibility Check Walk-Through

Scheduling systems will not be optimising against energy limits and will only follow PN for batteries. The Control Centres will need to be able to assess whether PNs submitted are feasible in order to create secure indicative operations schedules.

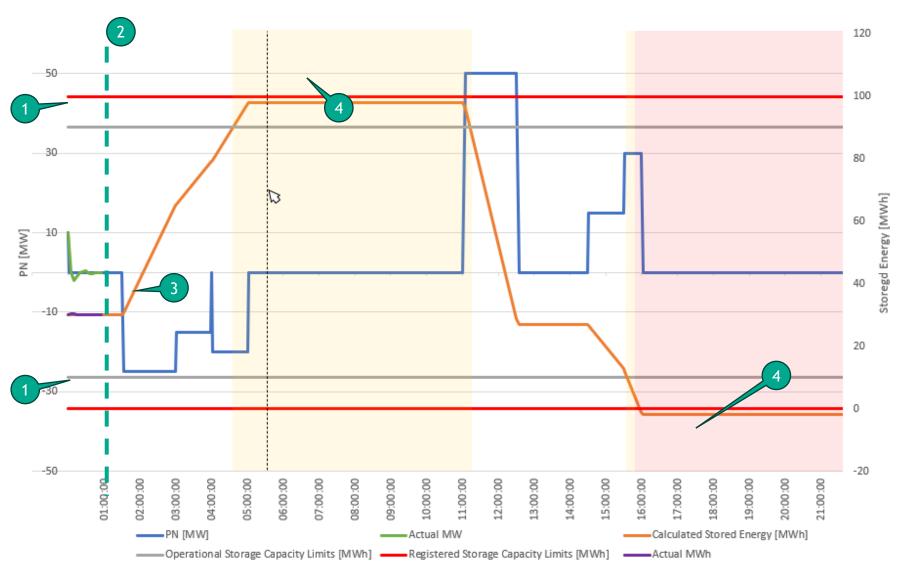
The PN Feasibility Checker is a new decision support tool taking data from market registration, COD, TOD, EDIL declarations and SCADA signals. It will generate a forecast of energy remaining based for all energy limited units to inform the Control Centres on how they can be included in the Scheduling & Dispatch processes.

#### Inputs:

- Registered Min/Max Storage Quantity (MWh) Registration Values
- Operational Min/Max Storage Quantity (MWh) Commercial Offer Data
- Remaining Export/Import Energy (MWh) SCADA Signal
- Available Export/Import (MW) EDIL Declaration & SCADA Signal
- Physical Notifications (MW)
- Storage Cycle Efficiency TOD
- Current Output SCADA Signal



# PN Feasibility Assessment



# Steps:

- Max & Min Storage
   Quantities Registered &
   Operational applied to
   graph.
- 2. Current output (MW) & remaining export energy (MWh) are picked as starting point.
- 3. A forecasted state of charge (SOC) is calculated for the day using submitted PNs, storage cycle efficiency and the above data (1 & 2).
- 4. Forecasted SOC is reviewed for breaches of registered & operational limits.
- 5. Unit may be excluded from Scheduling depending on severity of breach.



# What do participants need to know?

- SCADA signals, Operational Min/Max (MWh) COD submissions and Registered Min/Max (MWh)
  all play a part in the assessment of feasibility.
- If any of this data in incorrect it could influence scheduling and dispatch processes adversely so action may be taken to mitigate this.
- Example: The forecasted energy remaining (MWh) uses the SCADA signal for export energy remaining (MWh) as a starting point. Any errors in this signal may result in the PN feasibility check highlighting a breach in limits and causing units to be excluded from scheduling and/or dispatch
- We will be reaching out directly over the coming weeks through the SDP and System Support & Analysis teams in SONI & EirGrid to identify participants who may require updates to data to enable a smooth transition post SDP.



# FPM: Industry Workshop (21st August 2025)

# Agenda for today's workshop



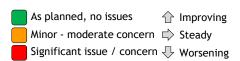
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# Future Arrangements for System Services (FASS)

# **FASS: Programme Summary Status**







<b>賽 FASS</b>	Summary Status
Overall Status	Overall programme status remains amber. SEMC Decision on 'The Gap' received, extending DS3 until DASSA Go-Live and closing the programme's previously highest risk. However, confirmation needed on final 'Day One' design and associated implementation activities.
Schedule	SEMC Decision on 'the Gap' received, mitigating the highest risk to programme schedule. However, amber status remains due to the potential need to reallocate resources from FASS to the design of new arrangements.
Resourcing	Programme resourcing remains green, however resourcing challenges are emerging due to an increased effort in delivery of design papers which is requiring the TSOs to reallocate resourcing to meet changing priorities and schedule.
Finances	Formal funding approval letter received from the RAs December 2024.

#### Workstream Updates

Detailed Market Design

Schedule remains challenging due to multiple ongoing design activities. TSOs have worked with RAs to include increased optionality in consultations. However, assessment ongoing on which options may be deliverable for DASSA go-live.

**Detailed Operations Design** 

Non-reserve services' product design, locational methodology and volume forecasting methodology ongoing. Alignment needed with RAs ASAP to progress implementation activities.

IT Systems Design

Vendor engagements progressing — detailed design phase in progress with Unicorn, while workshops continue with downstream system vendors to support operational changes.

Regulation & Licencing

Grid Code review to align with the SEMC decision on the reserve product definitions ongoing, modifications in draft for submission to the September Joint Grid Code Review Panel. RA/TSO engagement on licence modifications to commence in coming weeks.

SS Code Development

System Services Code Working Groups have been paused over summer months, to resume once key SEMC decisions are published (DASSA Top-Up Mechanism, Parameters & Scalars and Non-Reserves). Dependency on timely SEMC decisions to maintain momentum.

# Status of Business Design Papers





As part of the FASS Programme there are a number of consultations and publications in progress. Phased Implementation Roadmap (PIR) V3.0 was published on the 5th of June following agreement with the RAs.

Open Design Activities	Status	Update
Residual Availability Determination (FAM Alternative)	Recommendations Paper submitted to SEMC	Final Recommendations Paper submitted to the RAs 07/08. SEMC decision expected in August.
Parameters & Scalars	Recommendations Paper in progress	P&S consultation closed on 25/07, 19 responses received. Early insights shared with RAs, with further engagement ongoing. Initial drafting of the recommendations paper has commenced.
Non - Reserve Services	Work in progress (TSOs)	TSOs responding to RA feedback on draft Consultation Paper. Internal and RA reviews ongoing. RA-TSO alignment on direction of travel needed ASAP to progress implementation activities.

#### **Closed Design Activities**

DS3 SS Tariffs to FASS (The Gap)

Volume Forecasting Methodology (Reserves)

#### Status

Closed. SEMC Decision published

#### **Update**

SEM-25-031 DS3 SS Tariffs to FASS "The Gap" Decision Paper was published together with the TSOs' Recommendation Paper on 23/06.

Closed.
SEMC Decision published

SEM-25-011 DASSA Volume Forecasting Methodology (Reserves) Decision Paper was published along with the TSOs' VFM (Reserves) Recommendations Paper on 24/03. TSOs to publish further information on consequential losses as agreed 17/04.



Parameters & Scalars Responses

# DASSA Parameters & Scalars - Consultation Responses

Received 19 responses to the DASSA Parameters & Scalars Consultation Paper (one confidential).





# **General Agreement**

#### **Qualified Volumes**

Broad agreement on proposals for minimum and maximum volumes of services.

#### **DASSA Bidding**

3 proposals related to P/Q pairs (max number, min steps for quantity and price) generally received positively.
[Bidding timeframe of concern to some respondents.]

#### **Value Function**

Majority in agreement that 'preference' to procure dynamic over static in auction clearing be set to zero, i.e. no value function, for golive.

# **TSO Lapsing**

Strong preference for Option 1 -Compensation Payments would not be applied to units unable to honour DASSA Orders due to TSO actions.

#### Main Concerns Raised

#### **Bid Price Cap**

Disagreement to capping across DASSA products without bundling. Comments that these caps may disincentivise participation and should only be introduced to mitigate against extreme price events.

#### **Centralised ST**

Strong preference for a centralised Secondary Trading platform to eliminate external settlement & bilateral trading. Concerns that failures to centralise trading will severely impact liquidity.

#### **Scarcity Pricing**

Respondents argue that scarcity in the DASSA will be caused by the imposition of a Bid Price Cap, i.e. the cap will disincentivise bidding into the daily auction.

#### **Incentives**

Disagreement with the TSOs utilising persistent scalars and their duration. Many respondents preferred using once-off charges to incentivise fulfilment of Orders.

#### **Service Bundling**

Comments that without linked bidding under the current price cap proposal, providers may not recover costs, reducing incentives to participate. Operational considerations of BESS assets being awarded FFR & TOR1 only.

#### Complexity

Concerns that the TSO proposals add complexity to the arrangements that may delay DASSA go-live. Participants noted operational complexity in participating in secondary trading and calculating scalars. n

#### **ST Batch Matching**

Opinion that the use of Batch Matching optimisation is over complicated and may reduce secondary trading liquidity. Respondents highlighted preference for a first-come-first-served approach.

# Thank You

Questions can be submitted to

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

## **Next Steps:**

- SEMC Decision on DASSA Top-up Mechanism (RAD) expected end of August.
- TSOs to publish Terms of Reference for Technical Liaison Groups in September.
- TSOs to progress drafting of the Parameters & Scalars Recommendations Paper, to be completed end of September.

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# Strategic Markets Programme (SMP)







# STRATEGIC MARKETS PROGRAMME

#### **Background and Recap**

The Strategic Markets Programme (SMP) has been established by EirGrid and SONI to ensure that the necessary systems and processes are in place to deliver the following 3 pillars:

- EU Integration
- SEM-GB Trading Arrangements and,
- Balancing Market Reform (BMR)

SMP team made the following statement regarding Celtic Interconnector's cable delay

 Adjustments have been required to the subsea marine cable manufacturing programme for the Celtic Interconnector project, and the commissioning date is now expected for spring 2028. Impact on the SMP plan is currently being assessed.

# **Programme Replanning**

The Strategic Markets Programme team has commenced a structured process commenced following the announcement of the cable delay to understand the impact across all areas of the Strategic Markets Programme. Our key considerations are:

- External Dependencies and Coordination
- Programme Constraints
- Internal Readiness and Financial Review

The replanning exercise will undergo stages like:

- RTE alignment
- RA agreement
- EU stakeholder alignment

Work is carried as planned in areas non-dependent on the cable delivery or those a reason.

#### **Status Updates**

The Strategic Markets
Programme status updates

#### **EU-Integration:**

- Detail Requirements approved for SDAC and SIDC.
- TCM changes identified and drafting started

#### Balancing Market Reform:

- MARI accession is progressing.
- MNA implementation is underway.
- DCU design discussions are continuing.

#### SEM-GB Trading Arrangements:

 Update covered in Slide 27(Energy Market Policy)









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# Energy Market Policy (EMP)

# **Policy Highlights**

- The EU Commission recently shared an updated version of the Capacity Allocation and Congestion Management (CACM) guideline with Member States.
- In support of this process, as TSO, we have conducted an initial impact assessment and have engaged with ENTSO-E and other external organisations.
- This has potential implications for Post Brexit Arrangements as third countries are specifically mentioned. We are expecting an updated version to be published in the autumn.



Directorate-General for Energy



 The TSOs continue to support the RAs in the advancement of a Multi Year Plan for Market Projects. There is an RA workshop planned for the end of September on the topic.

- The Specialised Committee on Energy (SCE) who oversee the Trade and Co-operation agreement (Brexit) has sought a technical report from TSOs on the Post Brexit day-ahead arrangements for electricity.
- This report is currently going through a review cycle but will be submitted ahead of the next SCE meeting in November. We are anticipating a further update after the November meeting.



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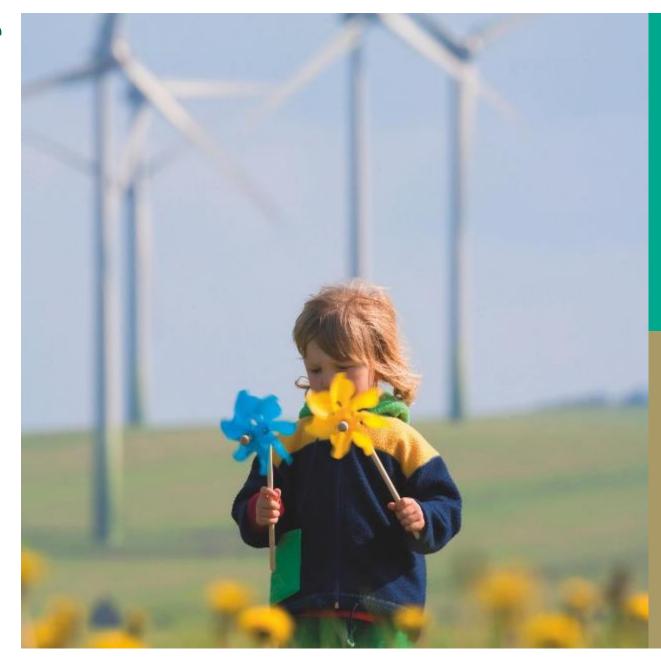
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# **Eirgrid - LDES Consultation Update**

- Ongoing engagement with the CRU
- Ongoing work on the consultation, consideration of LDES service, procurement arrangements and operational considerations
- Working with CRU and DCEE to publish consultation paper at the end of September



# Thank You

Questions can be submitted to

LDES@Eirgrid.com

# **Next Steps:**

- Forthcoming LDES Consultation on Procurement Mechanism
- Six-week consultation period with industry webinar

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# SONI's work on LDES is to be preceded and informed by completion of the Flexibility Needs Assessment required by EU Regulation.

SONI's approach to LDES is summarised by the following two workstreams: A and B.

- A Non-fossil Flexibility Needs Assessment (FNA) <sup>1</sup>
- 1 Obligation placed on Northern Ireland to complete the FNA by July 2026; every 2 years there after.
- 2 Assessment methodology approved by ACER on 25<sup>th</sup> July 2025 including the required work for SONI.
- 3 Flexibility Needs for the next 5-10 years to address surplus renewables, ramping and short-term forecast errors.
- 4 The FNA will inform an indicative national objective for non-fossil flexibility for Northern Ireland.
- If required, non-fossil flexibility support scheme(s) may be established.

- B Indicative view of required additional work for LDES following completion of the FNA
- 1 Required use-case for LDES
- 2 LDES volume requirements (MW and MWh)
- 3 LDES locational analysis
- 4 Economic analysis of LDES
- 5 LDES procurement mechanism design

The EU Regulation Flexibility Assessment methodology is a technology-neutral approach. Further studies will be required to specifically determine the needs-case and application of LDES in Northern Ireland.



# SONI is continuing stakeholder engagement in preparation for delivery of the FNA

Overview of FNA progress updates from SONI activities:

- 1 Funding request in progress for SONI to deliver against its obligations under the FNA regulation and methodology.
- Monthly meetings with UR regarding the FNA.
- 3 Continued engagement with DfE and NIE Networks to remain aligned on required work in the FNA.
- 4 Quarterly meetings started in June with RenewableNI and Energy Storage Ireland stakeholders to discuss the FNA, LDES and Dispatch Down.
- 5 If required, non-fossil flexibility support scheme(s) may be established.

Going forward, SONI will continue to include a Northern Ireland specific update on the FNA and LDES to stakeholders in the Future Power Markets industry workshops.



# Future Power Markets October Industry Workshop Update









# FPM October Industry Workshop - Project Showcase Updates

We are continually looking for new ways to both engage with, and hear from, industry in relation to Future Power Markets (FPM) programmes. As such, we are going to take a new, more interactive approach to delivering our October Industry Workshop:

#### **Future Power Markets Project Showcase**

- 1. The October Future Power Markets Industry Workshop will include **in-person**, **project showcase** style updates from Future Power Markets delivery teams.
- 2. Each Future Power Markets Programme team will have a stand where attendees will have the opportunity to receive updates on specific topics in smaller groups and engage with FPM delivery teams in a more direct manner.
- 3. This format is designed to enable further engagement and more two-way dialogue as part of the monthly FPM workshops.

## Help us shape this workshop!

- We want to hear from industry on what topics you want to see covered as part of these showcase updates.
- Industry feedback will help us shortlist the topics which will be covered as part of the showcase updates.
- Email <u>FuturePowerMarkets@Eirgrid.com</u> or <u>futurepowermarketsNI@soni.ltd.uk</u> by Friday 5th September with the topics you would like to see covered at the October Future Power Markets industry workshop.











# What topic(s) would you like to hear about at our October in-person workshop?



# FPM October Industry Workshop - Project Showcase Updates

## 1. What will be the format of the October Future Power Markets Industry Workshop?

- The October Future Power Markets Industry workshop will be held in person.
- As part of the workshop, the Future Power Markets Programme teams will be providing 'project showcase' style update on specific areas of interest for industry.

#### 2. Why is the October workshop being delivered in this way?

- The aim of this session will be to provide industry with an opportunity to engage with Future Power Markets teams in more direct manner and enable greater two-way dialogue.
- By delivering the October workshop in this manner, we hope to be able to receive feedback from, and engage with, a wider segment of industry.

#### 3. When will the October workshop take place?

The exact date of the October workshop will be confirmed in early September.

#### 4. Where will the October workshop take place?

- The October Industry workshop will take place in person and will be held in Dublin.
- The exact location will be confirmed in September.

#### 5. How can I receive an update on the Future Power Markets Programme if I cannot attend the workshop?

 All material from the October workshop, including the regular Programme status updates and the project showcase presentations, will be published following the workshop.







# Future Power Markets: Further Engagement

Future FPM Meetings		
Indicative Date	Location	
17 <sup>th</sup> September	Online (MS Teams)	
14 <sup>th</sup> /15 <sup>th</sup> /16 <sup>th</sup> October - TBC	In Person - Dublin	









# What October date would suit you best to attend in person?







Questions?



# Stakeholder Engagement: FPM Industry Workshop

**Contacting FPM 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)

<u>FuturePowerMarkets@Eirgrid.com</u> <u>futurepowermarketsNl@soni.ltd.uk</u>

#### 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)



# Questions







# Appendix



# 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

