

# Future Markets Technical Liaison Group Meeting #1



27<sup>th</sup> May 2026



MS Teams



14:00 - 15:30



# Future Markets TLG Meeting



Wednesday, 27 May 2026



Online (MS Teams)

Time	Duration	Segment	Presenters
14:00 - 14:05	5 mins	Welcome - Overview of Agenda	Rosaleen Fanning
14:05 - 14:15	10 mins	TLG Scope & Objectives	Rosaleen Fanning
14:15 - 14:25	10 mins	TLG Industry Survey Feedback	Cian Clynes
14:25 - 14:35	10 mins	TLG Proposed Ways of Working	Rosaleen Fanning
14:35 - 14:45	10 mins	FASS Solution Overview	Joe Deegan
14:45 - 15:00	15 mins	FASS Platform Technical Artefacts Roadmap	Joe Deegan
15:00 - 15:15	15 mins	<b>FASS Platform - Service Provider Engagement Channels Technical Fundamentals</b>	Gary O'Doherty & TJ Davitt
15:15 - 15:25	10 mins	Q&A	TLG Presenters
15:25 - 15:30	5 mins	Wrap Up - Workshop Close	Rosaleen Fanning

We will take questions via **Slido**. Scan the QR code below:



Or visit [Slido.com](https://www.slido.com) and enter the Code: **FMTLG**

# Future Markets Technical Liaison Group (TLG)

## Meeting Guidelines

### 1. Engage Fully:

- This session is for you!

### 2. Submit Questions via Slido

- Scan the QR code or visit [slido.com](https://www.slido.com) and enter the code **FMTLG** to submit your questions.

### 3. Stay on Topic:

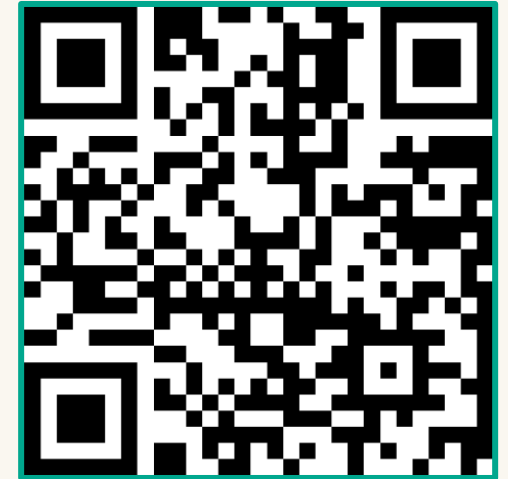
- Please keep questions focused on each segment as it is being covered.
- Any unrelated questions or comments can be followed up via email.

### 4. Be Time-Aware:

- Questions submitted via Slido are very welcome but may be time-limited to ensure we stay on schedule.

# slido

We will take questions via Slido.  
Scan the QR code below:



Or visit [slido.com](https://www.slido.com)  
& enter code:  
**FMTLG**

# Future Markets Technical Liaison Group

## Scope & Objectives



# Future Markets Technical Liaison Group - Programme Overview

This slide provides a high-level overview of the scope of the Future Markets Programme.

- The Future Markets (FM) Programme focuses on ensuring that the market can support the shift to cleaner energy, integrate new technologies, and operate efficiently in a future energy system that is low-carbon, digital and increasingly dynamic.
- The FM Programme spans 5 key programmes of work:

**TLG Focus Area**

**Future Arrangements for System Services (FASS)**

FASS is introducing competitive auctions for system services and updating the rules and contracts that support how these services are bought and delivered.

**Scheduling & Dispatch Programme (SDP)**

SDP is a programme of work to enhance and improve the technology and capability of the scheduling and dispatch process in Ireland and Northern Ireland.

**Long Duration Energy Storage (LDES)**

LDES is an EirGrid initiative which is currently progressing work to procure long-duration energy storage services, supporting national electricity policy.

**Energy Market Policy (EMP)**

EMP develops and communicates energy market policy, working closely with national and EU stakeholders to understand and respond to regulatory and legislative changes that affect the Single Electricity Market.

**Strategic Markets Programme (SMP)**

SMP supports the integration of the SEM with EU electricity markets, including day-ahead and intraday trading, cross-border capacity calculation and long-term transmission rights.

- Over the coming months, **the TLG will be focused on** facilitating engagement with industry on **the technical specifications of the FASS Programme.**
- The planned delivery activity for the coming months of the SDP\*, LDES, SMP & EMP Programmes does not include any engagement with industry of a technical nature relevant to the TLG.

\*The SDP Programme is engaging directly with two synchronous condenser operators in scope for the SDP-06 initiative on the relevant technical specifications for the SDP-06 initiative.

# Future Markets Technical Liaison Group - Objectives

This slide outlines the objectives of the Future Markets Technical Liaison Group.

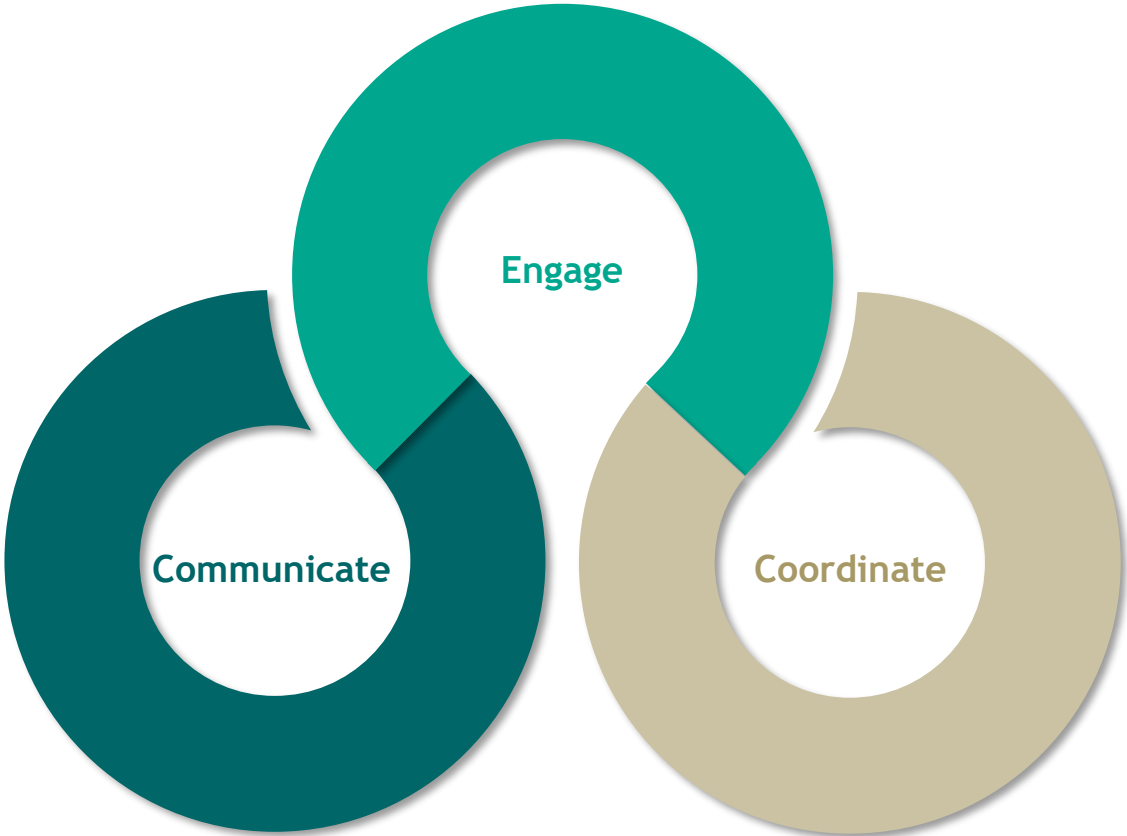
- The purpose of the Future Markets Technical Liaison Group (TLG) is to support structured engagement with market participants on the technical aspects of the Future Markets Programme.
- The TLG Terms of Reference (ToR), published on the EirGrid and SONI websites ([here](#)) and ([here](#)), details the scope and objectives of the TLG.
- The TLG will serve as a central forum for collaboration between the Future Markets Programme and market participants on technical matters, including but not limited to:
  - Technical Specifications
  - Data Publication Guides
  - Sandbox Testing
- A key objective of the TLG is to ensure that participants can implement the required changes in a timely capacity within their own organisations to enable them to successfully interface with the respective systems and processes.
- **NB:** While the TLG will promote transparency and early engagement through the timely release of documentation, it is important to note that stakeholders undertake their build activities at their own discretion and risk.



# Future Markets Technical Liaison Group - Principles

This slide outlines the key principles of the Future Markets Technical Liaison Group.

The key principles of the TLG are:



## Communicate

To share relevant technical information with Market Participants.

## Engage

To provide a mechanism for participants to offer input and provide feedback on technical matters related to the respective processes and systems.

## Coordinate

To facilitate the effective coordination of industry-wide activities, such as technical readiness and IT market connectivity testing.

# Future Markets Technical Liaison Group - TLG Scope

This slide provides information on the scope of the Future Markets Technical Liaison Group.



## In Scope

- Engagement with market participants on the technical aspects of the Future Markets Programmes, including, but not limited to:
  - Technical Specifications
  - Data Publication Guides
  - Industry IT Connectivity
  - Sandbox Testing



## Out of Scope

- Engagement with market participants on:
  - Programmes outside of the Future Markets Programmes (FASS, SDP, LDES, SMP & EMP).
  - Non-technical (IT) aspects of Future Market Programmes including:
    - Programme Delivery Updates
    - Business Design
    - Consultation
    - Qualification
    - Performance Monitoring

# Technical Liaison Group

## Industry Survey Feedback

Cian Clynes



# Future Markets Technical Liaison Group - Industry Survey Overview

This slide provides a summary of the recent TLG industry survey.

## Why and when was the TLG industry survey conducted?

- The aim of the TLG industry survey was to provide a mechanism for market participants to provide their input and feedback on the TLG.
- Input received from industry allows the FM Programme to:
  1. Prioritise the most relevant technical topics for discussion at TLG.
  2. Design an effective engagement model for the TLG.
  3. Ensure the TLG delivers practical value to market participants.
- The TLG industry survey was open for 4 weeks from 23<sup>rd</sup> April to 25<sup>th</sup> May.

## What questions were in the survey?

- Participants were asked to provide feedback on 3 key topics:
  1. Their organisation's understanding of, and preparations for, the changes being delivered by the Future Markets Programmes.
  2. Information and support their organisation requires in preparing for the technical changes being delivered.
  3. Their ways of working preferences for the TLG.

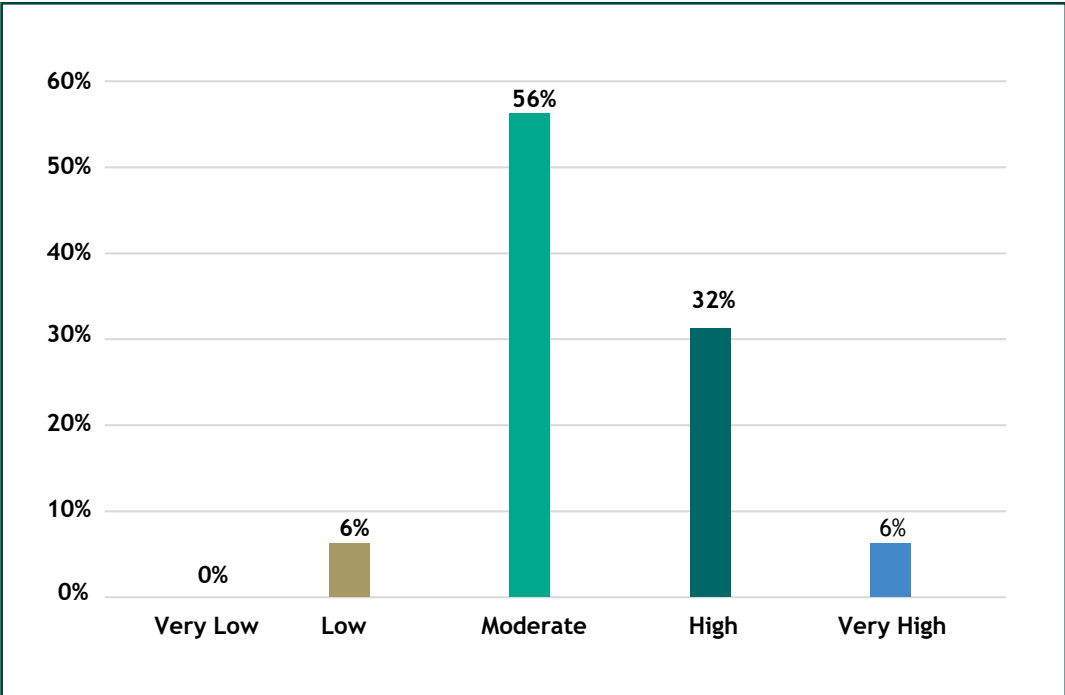
## What were the main findings?

- 17 market participants completed the TLG industry survey.
- Large majority of responders indicated a **'moderate to high' level of understanding of FM programmes with 50% of responders indicated they were 'somewhat prepared'** for the changes being delivered.
- **Clear call out for technical requirements for FASS** to be provided to market participants to support preparation for FASS initiative.
- Preference for TLGs to take place **every 1 to 2 months**, to be held via a **hybrid format** and with material shared **48 hours to 1 week in advance of the TLG**.

# Future Markets Technical Liaison Group - Industry Survey Feedback

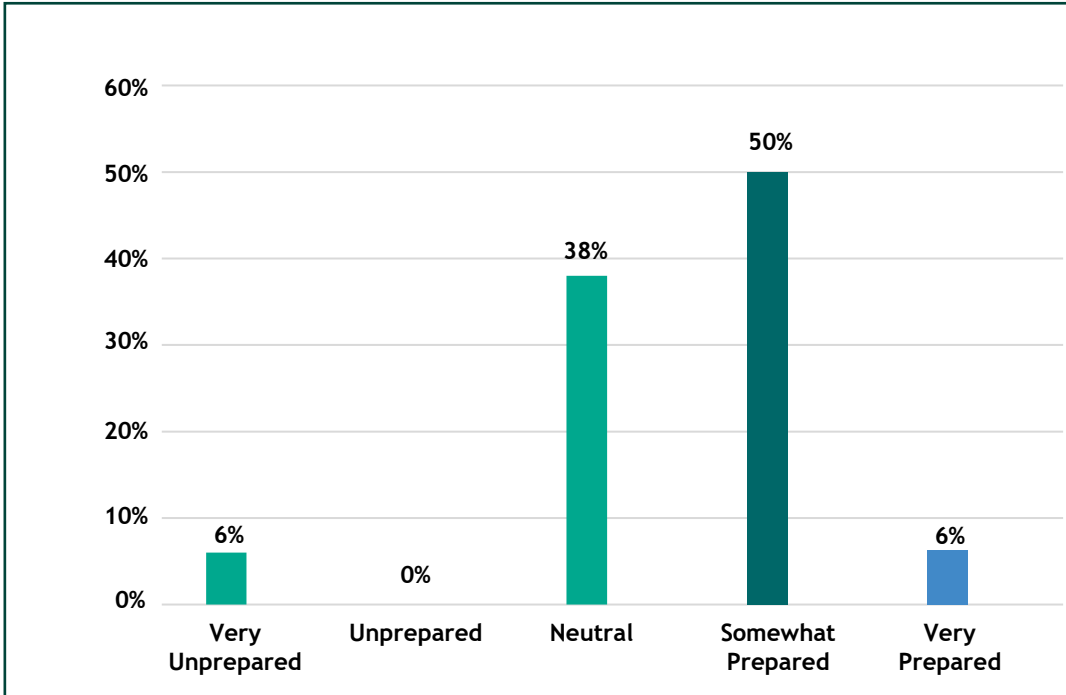
This slide provides an overview of responses to the TLG industry survey.

### Awareness of Future Markets Programmes



Q1. How would you rate your organisation's awareness of the planned Future Markets programmes?

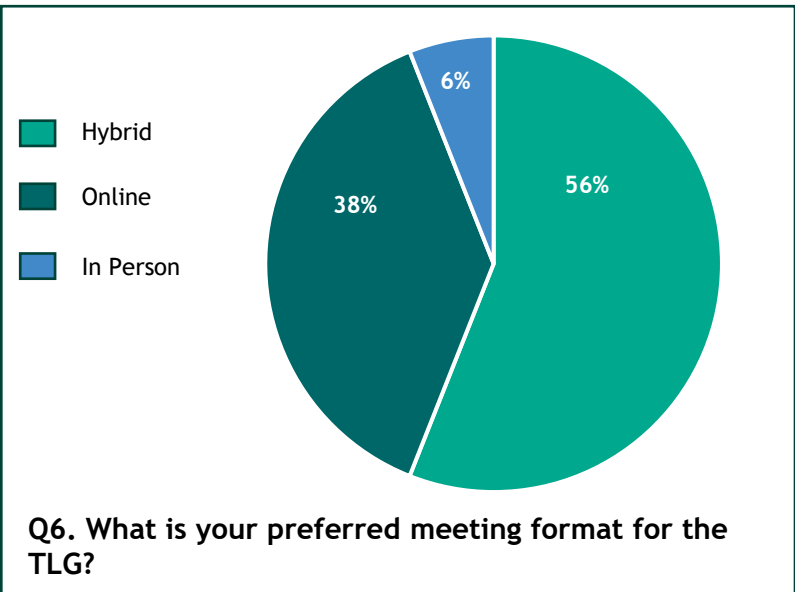
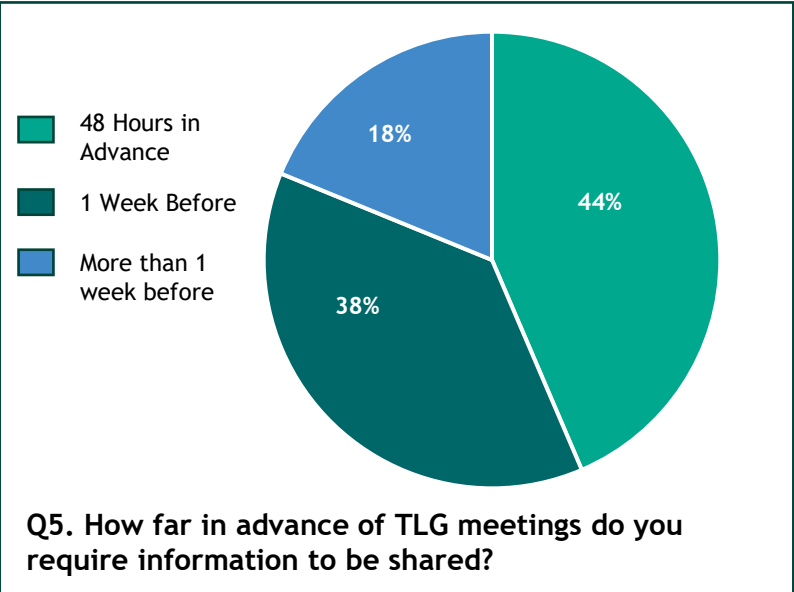
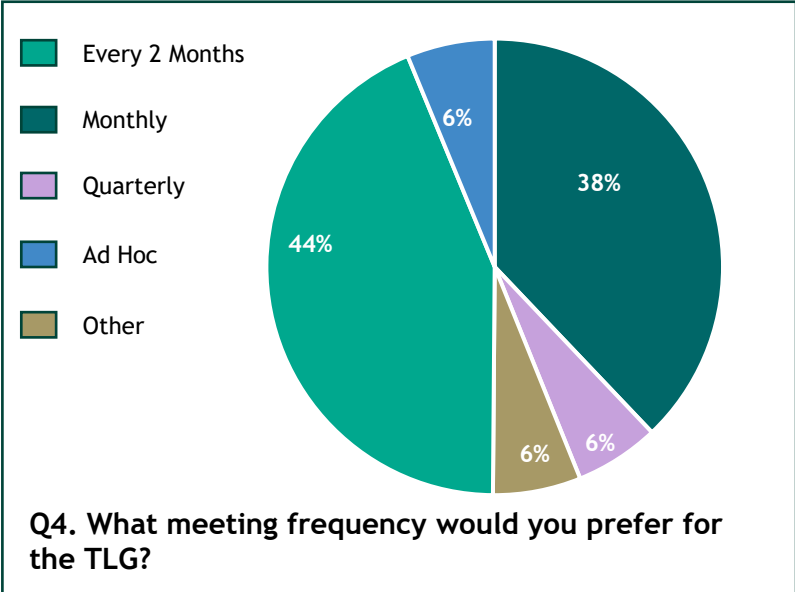
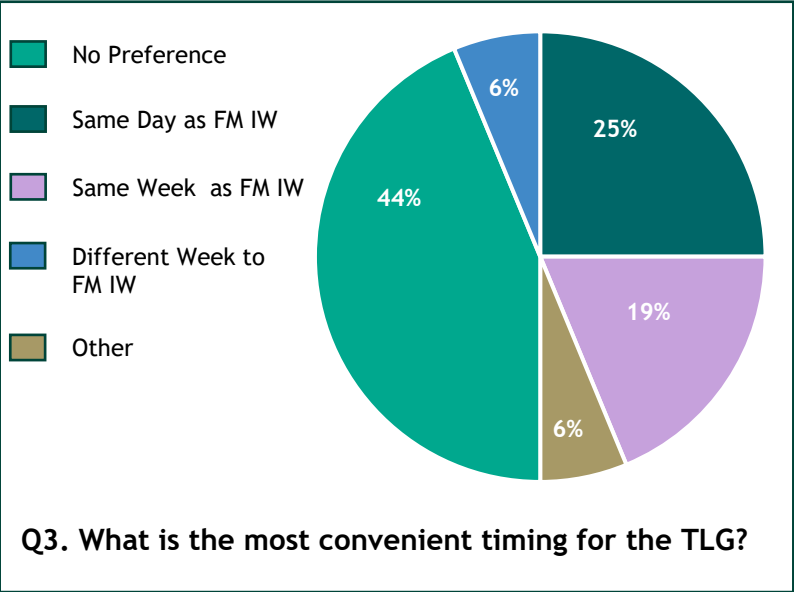
### Preparedness for Future Markets Programmes



Q2. How prepared is your organisation to respond to planned technical/market changes being delivered via Future Markets programmes?

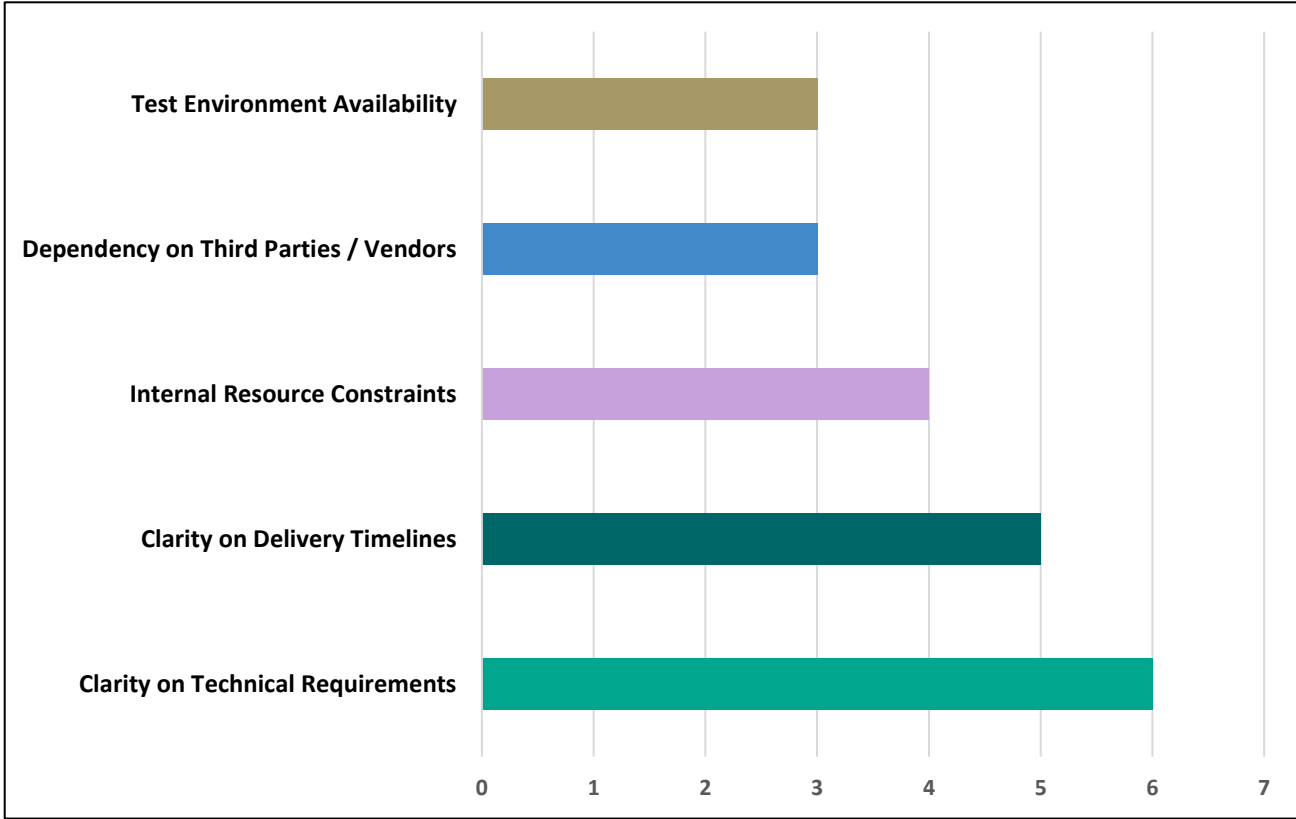
# Future Markets Technical Liaison Group - Industry Survey Feedback

This slide provides a summary of responses to the TLG ways of working questions in the industry survey.



# Future Markets Technical Liaison Group - Industry Survey Feedback

This slide outlines the survey responses in relation to industry challenges in preparing for the Future Markets technical changes.



Q.7 What are the biggest challenges your organisation faces in responding to these changes?  
(Rank in order of importance)

# Technical Liaison Group

## Ways of Working



# Future Markets Technical Liaison Group - Ways of Working

This slide provides information on the ways of working for the Future Markets Technical Liaison Group.

- TLGs will initially take place **every two months**, with meeting frequency reviewed and adjusted as needed.
- The Future Markets Technical Liaison Group meetings will be **primarily held online**.
  - Options for hybrid sessions will be explored following a review of TLG ways of working and roadmap in Q4.
- TLG meeting details will be communicated **at least 2 weeks in advance**.
- The TLG Terms of Reference will be reviewed periodically to ensure ongoing effectiveness and alignment with programme requirements.
- TLG communications will be issued to stakeholders primarily through the Future Markets email accounts (*i.e.* [FutureMarkets@Eirgrid.com](mailto:FutureMarkets@Eirgrid.com) and [futurepowermarketsNI@soni.ltd.uk](mailto:futurepowermarketsNI@soni.ltd.uk)).
- TLG documentation will be published under the Future Markets pages on the [EirGrid](#) and [SONI](#) websites.



# Future Markets Technical Liaison Group - Ways of Working

This slide provides information on the ways of working for the Future Markets Technical Liaison Group.

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The key roles & responsibilities for the TLG are outlined below.

## The TSO's will:

- Chair and facilitate the TLG meetings.
- Provide secretariat support and share relevant material for presentation at the TLG.
- Ensure representation from relevant Programme, IT, and Change Management teams.
- Record industry queries and provide query responses, where applicable.

## TLG attendees will:

- Engage in a professional, respectful and constructive manner.
- Use information appropriately and in accordance with applicable obligations.
- Treat information shared within the TLG as confidential, where indicated.



# FASS Solution Overview

Joe Deegan



# Future Markets Technical Liaison Group - FASS Solution Overview

This slide provides a high-level overview of the FASS Solution.

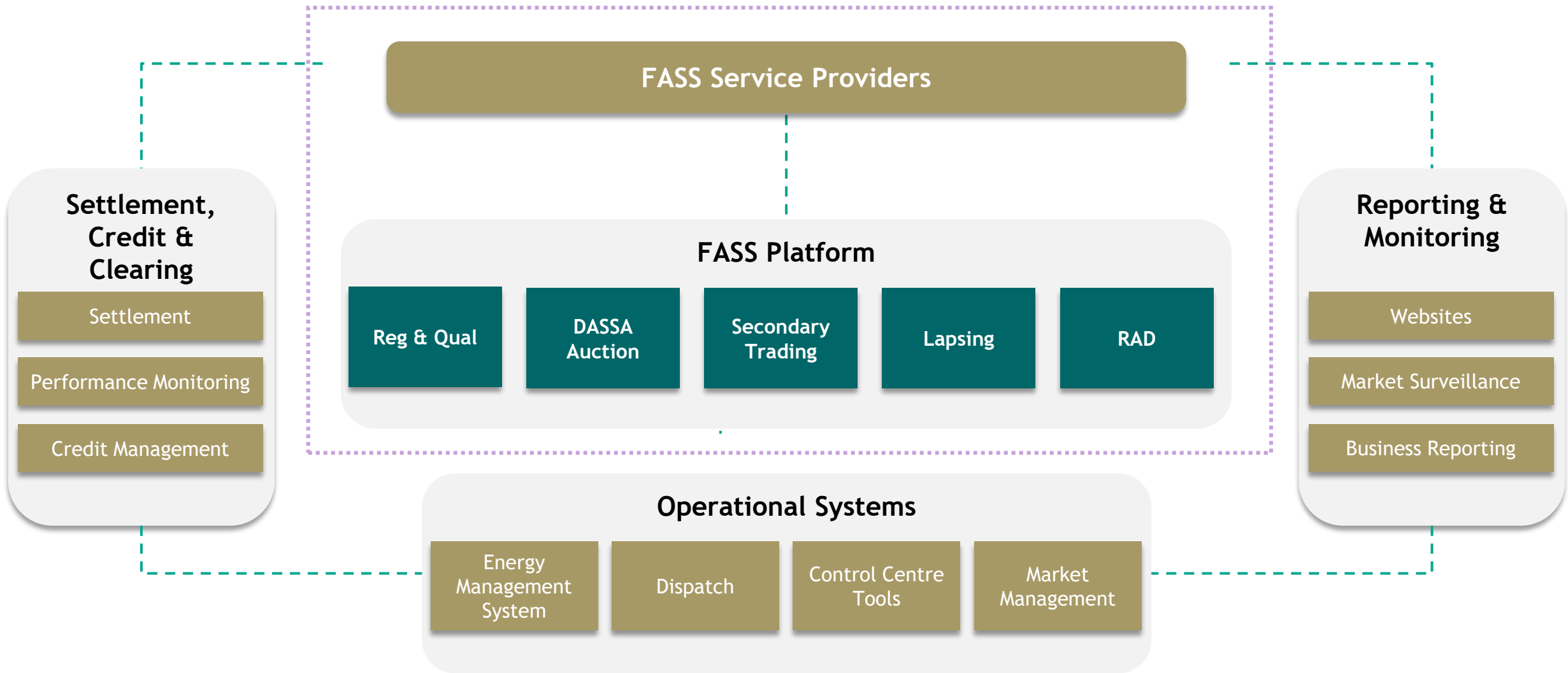


Image 1 : FASS Solution Overview

# Future Markets Technical Liaison Group - FASS Solution Systems of Engagement

This slide provides high-level information on the systems that market participants will interact with for the FASS solution.

DASSA Arrangements

- |    |   |  |
|----|---|--|
| 1. | <b>FASS Platform (New)</b>                      | The FASS Platform will be the central platform to interface with the market and will offer a Web Interface for human-to-system interaction and Rest API for system-to-system interaction.                  |
| 2. | <b>Website (Updated)</b>                        | The TSO websites (EirGrid and SONI) will be utilised for public reporting on all FASS arrangements including system service code, qualification packs, auction packs, results, various metric reports etc. |
| 3. | <b>Settlement System (New)</b>                  | The FASS settlement systems (only for Service Providers) will build on the existing settlement process, to provide settlement documentation for download.  |
| 4. | <b>EDIL System (Updated)</b>                    | Enhancements will be made to allow Service Providers that use EDIL to submit declarations for all new reserves available under FASS.   |
| 5. | <b>Credit Management Provider (Placeholder)</b> | Procurement activity in progress.  |
| 6. | <b>EMS and MMS (Updated)</b>                    | Some changes are being made.   |

# Technical Liaison Group

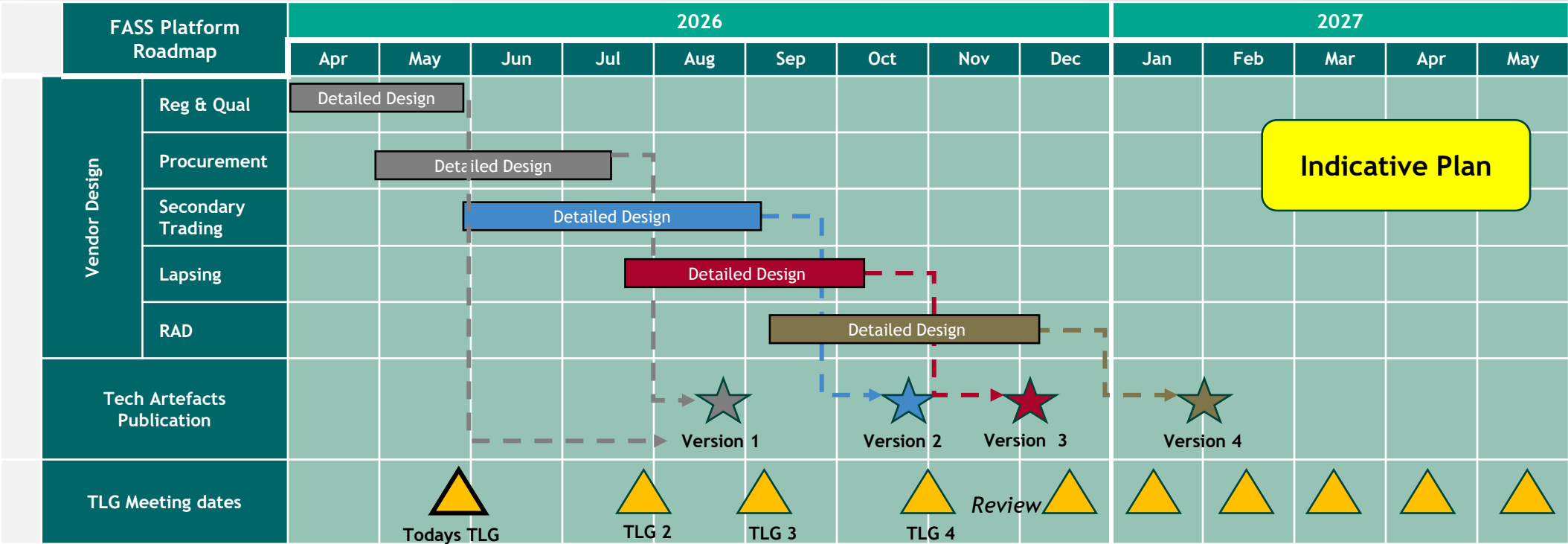
## FASS Platform Technical Artefacts Roadmap

Joe Deegan



# Future Markets TLG - FASS Platform Indicative Technical Artefacts Publication Approach

This slide outlines the indicative approach and plan for the publication of FASS Platform technical artefacts and information to industry in advance of TLG meetings.



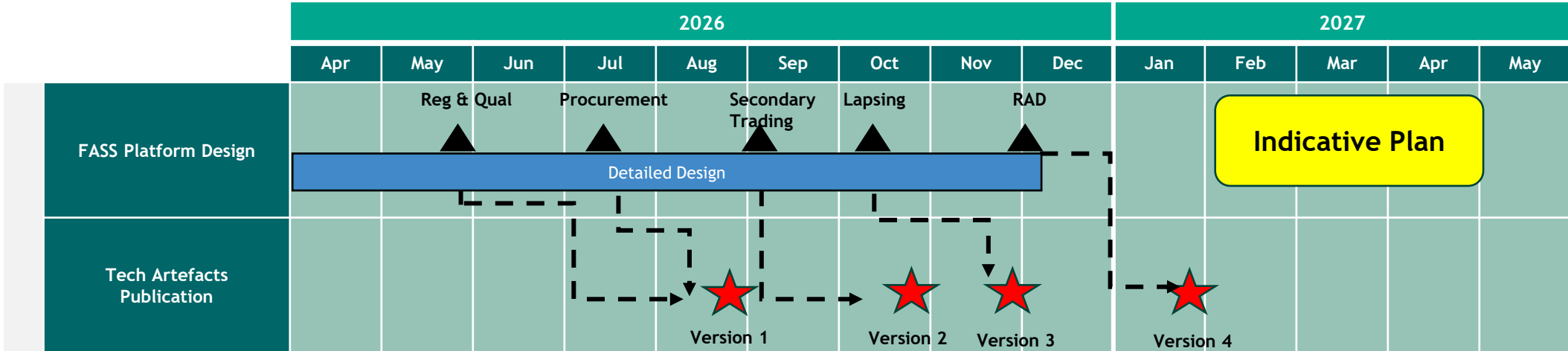
**Indicative Plan**

*Frequency of engagement expected to increase*

- Technical information and material will be released on a phased approach, as available.
- Publication of FASS technical material is subject to dependencies on relevant vendors.
- Technical artefacts roadmap will be reviewed at each TLG meeting.
- The TLG meeting in July (TLG 2) will cover the Settlement Roadmap and other systems, if the information is available.
- Further TLG meetings will take place within 2 weeks of release of technical information to industry, to review and discuss the contents of each publication.

# Future Markets TLG - FASS Platform Indicative Technical Artefacts Publication Approach

This slide outlines the indicative planned schedule and contents of the FASS Platform technical artefacts that will be published and shared with industry ahead of TLGs



Version#	Description	Release Date	Contents
Version 1	<ul style="list-style-type: none"> <li>FASS Platform</li> <li>Registration &amp; Qualification</li> <li>Procurement</li> </ul>	End Aug 26	<ul style="list-style-type: none"> <li>How to securely connect to the FASS platform, how user access and management works, and a detailed guide to the Registration, Qualification and Procurement functionality including the technical instructions needed to build and test your connection to those functions.</li> </ul>
Version 2	<ul style="list-style-type: none"> <li>FASS Platform</li> <li>Secondary Trading</li> </ul>	End Oct 26	<ul style="list-style-type: none"> <li>An update to Version 1, plus a detailed guide to the Secondary Trading functionality including the technical instructions needed to build and test your connection to Secondary Trading.</li> </ul>
Version 3	<ul style="list-style-type: none"> <li>Lapsing</li> </ul>	End Nov 26	<ul style="list-style-type: none"> <li>An update to previous versions, plus a detailed guide to the Lapsing functionality including the technical instructions needed to build and test your connection to Lapsing.</li> </ul>
Version 4	<ul style="list-style-type: none"> <li>RAD</li> </ul>	End Jan 27	<ul style="list-style-type: none"> <li>An update to previous versions, plus a detailed guide to the RAD (Residual Availability Determination) functionality including the technical instructions needed to build and test your connection to the RAD.</li> </ul>

# FASS Platform

## Service Provider Engagement Channels Technical Fundamentals

Gary O'Doherty  
& TJ Davitt



# FASS Platform: Communication Channels

The slide provides an overview of the web interface through which service providers will interact with the FASS Auction Platform.

Providers can interact with the platform via:

Manually: **Type 2: Web Interface** (Human-to-System)

Automatically: **Type 3: REST API** (System-to-System)



## Type 2: Web Interface Fundamentals

- Accessed via standard web browser
- The latest major versions of Google Chrome, Microsoft Edge and Mozilla Firefox (among others) will be supported
- JavaScript must be enabled in the browser
- Optimised for desktop use
- Web Interface Authentication
  - Standard authenticator app required for MFA\* (multi-factor authentication)
  - E.g. Google Authenticator or Microsoft Authenticator supported

\*Note: *Certificate-based authentication is not supported*

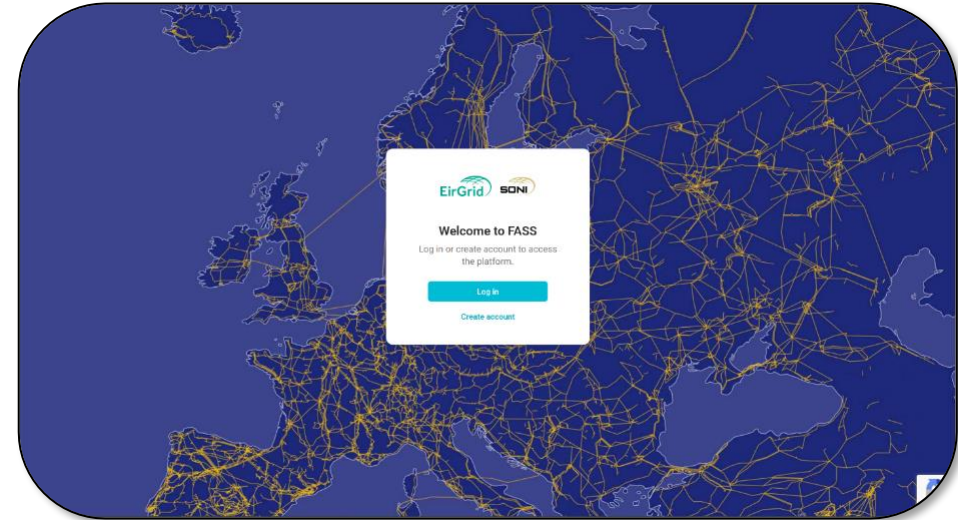


Image 2: Mock Web Interface Login Site

# FASS Platform: Communication Channels

This slide provides information on the Rest API channel through which service providers will interact with the FASS Platform.



## Type 3: REST API (System-to-System)

- Automated system-to-system communication with FASS
- Normal REST API integration using standard industry approaches:
  - HTTPS over TLS encryption
  - JSON data format as payload
  - OpenAPI 3.1 specification
- FASS platform built with modern microservice architecture
- All API requests are initiated from Service Providers to the FASS Platform (synchronous, request-response mode)

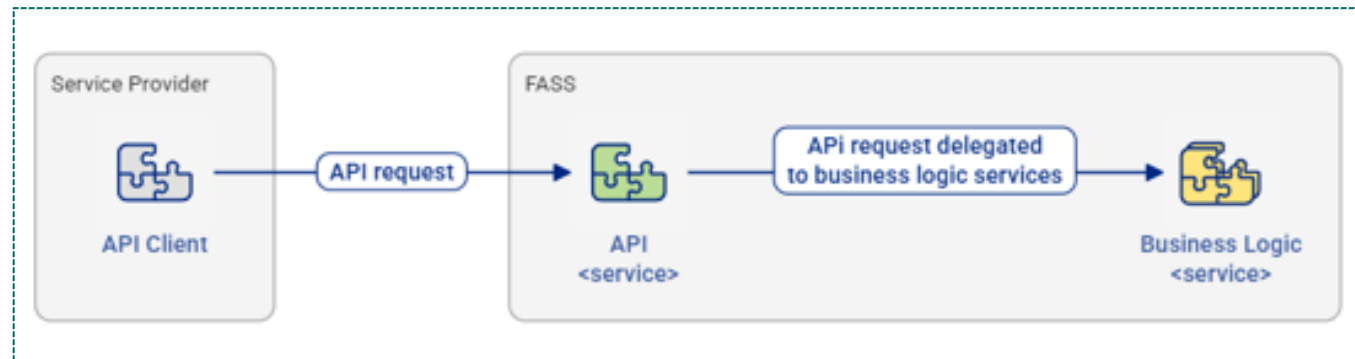


Image 3: API request

# FASS Platform: REST API Data Exchange

The slide provides key information on the data exchange for the REST API.

## Scope

Approximately 14 API endpoints will be available in the FASS Platform

- Submission of offers for Auctions and Trading
- Receiving various member private, member public results
- Submission of lapsing notification
- Submission of forecast capability
- Order tracking
- Order book visibility

## Communication Method

- The FASS platform uses primarily two REST methods for data exchange as outlined below:
  1. **GET\*** - for retrieval
  2. **POST\*** - for submission/update

*\*Internet Engineering Task Force*



## Data Format

- Data exchange will use JSON format and OpenAPI 3.1 specifications will be provided to support implementation.
- JSON has been selected as it is the preferred format for integration in modern applications due to:
  - REST API standard, dominant web integration pattern
  - Widely supported across modern integration tooling and programming languages
  - Simplifies API implementation and processing
  - Lightweight and efficient data exchange

## Responses

- Standard HTTP status codes\* (Internet Engineering Task Force)

Status Group	Description
2xx	Successful
400	Invalid Request
401	Authentication failed
403	Authorisation failed
5xx	Server/platform issue

# FASS Platform: REST API - Authentication Requirements

The slides outlines the sign on and authentication requirements for the REST API.

## What is the approach?

### OAuth 2.0 Authentication + API Gateway validation

- **Layered security:** API Key identifies the participant system while OAuth provides short-lived authorisation (both are required)
- **Modern API alignment:** OAuth 2.0\* is widely adopted for REST API security
- **Operationality flexible:** Token refreshed compared to reissuing of certificates

## How it works?

### OAuth 2.0 Authentication\*

- Service provide requests a temporary access token using:
  - Client\_id: Participant system identity
  - Client\_secret: Unique secret code
- FASS responds with temporary “Access token“

### API Gateway validation

- API Key: Static participant identifier used for gateway validation

*\*Internet Engineering Task Force*

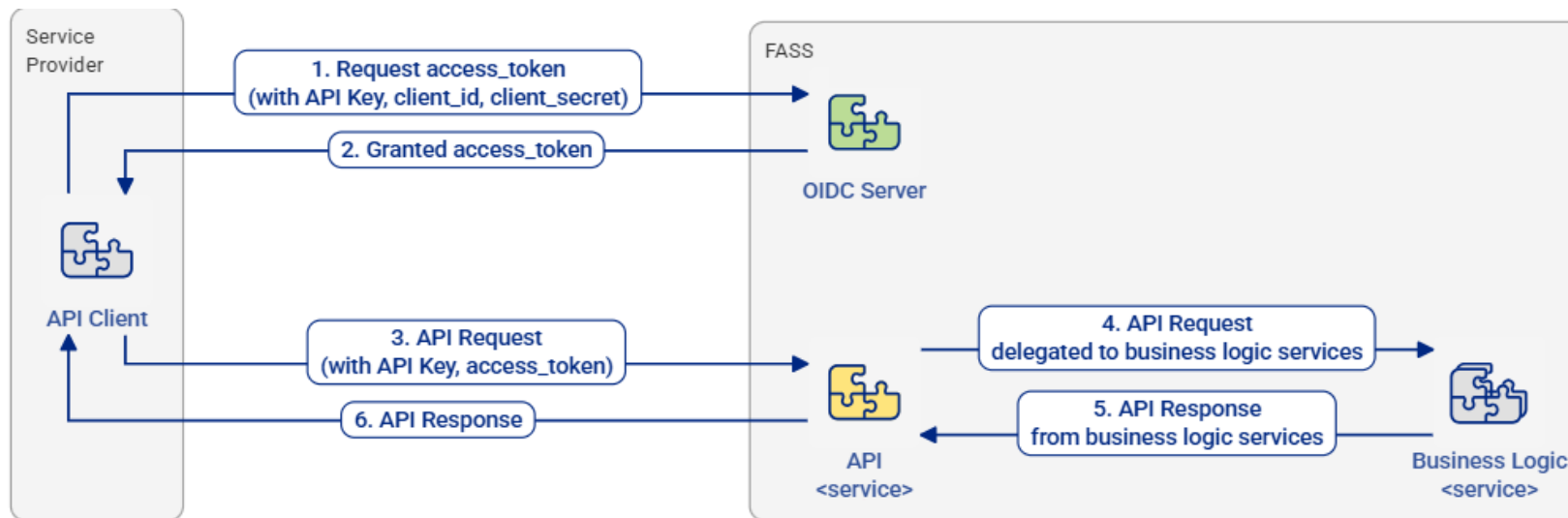


Image 4: Authentication of service providers and FASS

# Technical Liaison Group

## Questions & Answers



# Next Technical Liaison Group (TLG) Meeting

The next TLG meeting will take place towards the end of July.

## Planned topics for discussion:

1. Functional details of DASSA Registration & Qualification and Procurement modules following close of design phase.
2. Update on technical artefacts roadmap for other FASS systems.
3. Update on FASS Platform technical fundamentals, where applicable.



# Thank you for your attendance!

Today's presentation along with the Q&A will be published on EirGrid [here](#) and SONI [here](#) websites once finalised.

TLG queries can be sent to:

- [futureMarkets@Eirgrid.com](mailto:futureMarkets@Eirgrid.com) or
- [futurepowermarketsNI@soni.ltd.uk](mailto:futurepowermarketsNI@soni.ltd.uk)

FASS specific queries can be sent to:

- [FASS@Eirgrid.com](mailto:FASS@Eirgrid.com) or
- [FASSProgramme@soni.ltd.uk](mailto:FASSProgramme@soni.ltd.uk)

