

# FASS Programme

## Phased Implementation Roadmap (PIR) V3.0

June 2025



# Table of Contents

TABLE OF CONTENTS .....2

PREFACE.....5

EXECUTIVE SUMMARY .....6

INTRODUCTION .....7

APPROACH .....8

PHASED IMPLEMENTATION ROADMAP .....9

APPENDIX .....20

## Version History

Artefact	Description of change	Date
Phased Implementation Roadmap 1.0	Baseline PIR.	March 2024
Phased Implementation Roadmap 2.0	Updates to PIR to include: <ul style="list-style-type: none"> <li>L2 milestones for January to June 2025.</li> <li>Programme milestone descriptions.</li> <li>Risks / Issues.</li> </ul>	September 2024
Phased Implementation Roadmap 3.0	Updates to PIR to include: <ul style="list-style-type: none"> <li>L2 milestones for July to December 2025.</li> <li>Detailed schedule of programme 'Day 1' consultations.</li> <li>Programme milestone descriptions.</li> <li>Risks / Issues.</li> </ul>	June 2025

## Background Documentation

Artefact	Type	Link
Phased Implementation Roadmap (PIR) V1.0	Programme Planning	<a href="#">EirGrid Link</a> <a href="#">SONI Link</a>
Phased Implementation Roadmap (PIR) V2.0	Programme Planning	<a href="#">EirGrid Link</a> <a href="#">SONI Link</a>
High Level Design Decision	SEMC Decision (SEM-22-012)	<a href="#">Link</a>
Phased Implementation Roadmap Decision	SEMC Decision (SEM-23-103)	<a href="#">Link</a>
DASSA Design Decision	SEMC Decision (SEM-24-066)	<a href="#">Link</a>
Product Review and Locational Methodology Decision (Reserves)	SEMC Decision (SEM-24-074)	<a href="#">Link</a>
All-Island System Services Supplier Charge Decision	SEMC Decision (SEM-25-007)	<a href="#">Link</a>
Volume Forecasting Methodology Decision (Reserves)	SEMC Decision (SEM-25-011)	<a href="#">Link</a>

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# Preface

As Transmission System Operators (TSOs), EirGrid and SONI are separately bound by national and European legislation. Under the Climate Action and Low Carbon Development (Amendment) Act 2021<sup>1</sup> and the Climate Action Plan 2023<sup>2</sup> (CAP23) in Ireland, carbon budgets and the Climate Change Act (Northern Ireland) 2022<sup>3</sup> in Northern Ireland, the TSOs are each separately responsible for delivering low-carbon reserve services to support the 2030 decarbonisation targets in their respective jurisdictions.

At a European level, the Clean Energy Package (CEP)<sup>4</sup> has set the foundation for a new electricity market design with the objective of modernising Europe's electricity market, promoting enhanced flexibility and integrating renewable energy through market driven solutions. The CEP builds on the Electricity Balancing Guideline (EBGL)<sup>5</sup> Network Code, directing each TSO to procure system services in an efficient, economic and market-based manner for their jurisdiction. In particular, the legislation directs that balancing capacity (reserve services) should be procured on a short-term basis to the extent possible with a derogation required for contracting periods longer than one day.

To accommodate these regulatory adjustments, the SEM Committee (SEMC) published its High-Level Design (HLD) in SEM-22-012<sup>6</sup> in April 2022. The High-Level Design laid out a phased introduction of a range of market arrangements to facilitate the move to a competitive framework for the procurement of reserves, including delivery of the Day Ahead System Services Auction (DASSA). In December 2023, the SEMC published their decision (SEM-23-103)<sup>7</sup> on the System Services Future Arrangements, which set out a draft Phased Implementation Roadmap (PIR) and directed the TSOs to publish the TSOs' Phased Implementation Roadmap in Q1 2024. The first iteration (V1.0) of the Phased Implementation Roadmap<sup>8</sup> was published in March 2024 post SEMC approval fulfilling this requirement, with subsequent iterations to be published bi-annually.

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<sup>1</sup> [Climate Action and Low Carbon Development \(Amendment\) Bill 2021 \(gov.ie\)](#)

<sup>2</sup> [Climate Action Plan 2023 \(gov.ie\)](#)

<sup>3</sup> [Climate Change Act \(Northern Ireland\) 2022 \(legislation.gov.uk\)](#)

<sup>4</sup> [Regulation \(EU\) 2019/943 on the internal market for electricity \(eur-lex.europa.eu\)](#), [Directive \(EU\) 2019/944 on common rules for the internal market for electricity and amending Directive 2012/27/EU \(eurlex.europa.eu\)](#)

<sup>5</sup> [Regulation \(EU\) 2017/2195 establishing a guideline on electricity balancing \(EGBL\) \(eur-lex.europa.eu\)](#)

<sup>6</sup> [SEM-22-012 System Services Future Arrangements High Level Design Decision Paper.pdf \(semcommittee.com\)](#)

<sup>7</sup> [SEM-23-103 System Services Future Arrangements Phase III: Detailed Design & Implementation Decision Paper.pdf \(semcommittee.com\)](#)

<sup>8</sup> [Phased Implementation Roadmap V1.0](#)

# Executive Summary

The Phased Implementation Roadmap (PIR) outlines the programme roadmap for the delivery of the Future Arrangements for System Services (FASS) and focuses on the key programme activities and milestones leading to the go live date. This document presents the third iteration (V3.0) of the Phased Implementation Roadmap.

The FASS programme status moved to a red status in January 2025 reflecting: 1) delays to the contracting of the IT system vendor for the core auction design (issue now closed); and 2) delays to consultation timelines against baseline plan. While every effort has been made to mitigate the impact of these delays the compounding impact of both issues now means that the original schedule and go live date of December 2026 is no longer viable. Following careful consideration, the TSOs presented several options to the RAs in March 2025 with formal agreement received on the preferred option in May 2025.

Following formal agreement received from the RAs, the TSOs can confirm that the revised target go live date for the FASS Programme is May 2027. While the overall confidence has increased to medium, which is typical for this stage of a programme of this scale and complexity, it is also important to note that the change in schedule is to account for delays previously incurred by the programme and to allow for additional review time by the RAs at the consultation design stage. Confidence in the timeline will increase through clarity by way of SEMC decisions (at the agreed milestones dates), clarity on the market arrangements between the end of the DS3 Regulated Arrangements and the go live of the FASS arrangements and once IT vendors have committed to working to programme timelines. In the interest of transparency, programme implementation risks have been outlined in the appendix of this document.

Effective collaboration and timely decision making are crucial for successfully delivering the FASS Programme according to the timelines set out in this document. There are several consultations, SEMC decisions and RA approvals required to deliver the FASS Programme. To mitigate this risk, the RAs and TSOs have implemented a document sharing process which continues to work well. Further, the TSOs are committed to revising recommendations if they become incompatible with subsequent decisions, endeavouring to provide reassurance to industry that the design is agreed and understood by all parties.

Lastly, the TSOs acknowledge the necessity for clear and transparent communication and providing timely updates to industry to facilitate their own programme deliveries. Monthly updates on the status of the programme will continue to be provided through the Future Power Markets Industry Workshop forum, and continued engagement from industry is encouraged at these sessions.

## Key Points:

- Bi-annual evaluation of the roadmap, and separately funding approval, as required, is essential to deliver to the timeline. The next iteration of the PIR (V4.0) will be published in October 2025.
- Update to schedule for all activities to reflect change in Programme go live date in addition to further granularity and detail on the programme schedule for 'Day 1' consultations.
- Timeline confidence rises to medium which is typical at this stage in a programme of this scale and complexity.
- The addition of a further information paper on the methodology for calculation of consequential losses and timeline for publication of the first 10-year and 1-year annual forecast.
- An additional third draft of the System Services Code Plain English Version for which a target date of December 2025 is included in the programme plan.
- The Programme Governance and Readiness workstreams have been assigned dedicated programme activities including a timeline for target mobilisation of a Technical Liaison Group (TLG), and the publication of a programme qualification approach for new / amended products in early 2026.
- Future' workstreams have been added to the level 1 programme plan to commence in 2026 once 'Day 1' design activities conclude. Activities under these workstreams will be delivered post FASS go live.

# Introduction

On the 8th of December 2023, the SEMC released a decision paper on the Detailed Design and Implementation of Future Arrangements for System Services (FASS). Within SEM-23-103, the SEMC released their draft Phased Implementation Roadmap (PIR) and set out several requirements for the FASS Programme informing the TSOs' next steps.

The TSOs published PIR V1.0 in March 2024 which was approved by the SEMC. As set out in PIR V1.0 the TSOs will conduct a comprehensive assessment of the PIR every six months (where possible) to provide further clarity to industry on the upcoming programme milestones and reflect changes to schedule where necessary and approved. This artefact provides an update based on this assessment, with monthly granularity of timelines provided until December 2025.

The purpose of this paper is to address the requirements set out by the SEMC in SEM-23-103 and to release the TSOs' Phased Implementation Roadmap V3.0.

Below is a summary of the outputs from the SEMC decision (SEM-23-103) pertaining to the publication of the PIR,

- TSOs to assess the SEMC Decision and draft Phased Implementation Roadmap published on December 8th, 2023.
- TSOs to assess the timing of deliverables impacted by the decision and if deliverables are achievable within the proposed timelines.
- TSOs to respond to the SEMC Decision Paper with an updated roadmap for the FASS Programme, subject to approval by the SEMC. This response should specify if the December 2026 go live date is still achievable and outline any risks or issues that could delay this go live date.
- TSOs to proceed with priority deliverables, as set out by the TSOs and approved by the SEMC.
- TSOs to provide updates on progress to the FASS Project Panel every two months.

The FASS Programme go live date is dependent on timely SEMC decision making and programme funding. While the go live date has been extended to May 2027, programme timelines remain extremely challenging and any delays in decision making will likely have a knock-on effect on other workstreams and potentially delay the DASSA go live. Risks to the go live date are detailed in later in this document. The requirement for funding is included within the roadmap as a pre-requisite. At this time, the TSOs have received approval of programme based on the original programme schedule and scope. A detailed assessment will need to be undertaken by the TSOs to understand the changes to these funding requirements at a later date.

# Approach

The TSOs acknowledge the necessity of providing clear timelines to industry to facilitate their own programme deliveries. Considering this and the current level of confidence in the programme timelines, the TSOs propose to continue the bi-annual evaluation of the Phased Implementation Roadmap (PIR).

This document presents a condensed overview of the programme in both a Level 1 and Level 2 format in addition to further granularity regarding Day 1 consultation timelines. Level 1 outlines the overarching plan covering the entire duration of the DASSA Arrangements implementation, while the Level 2 detailed in this paper provides a more granular plan specifically focused on January 2025 - December 2025.

## Frequency

Every six months (in so far as possible), the TSOs will continue to conduct a comprehensive assessment of the PIR, which is detailed in the Level 2 Plan. Specific milestone and workstream timelines will be outlined for the subsequent six-month period. Any changes to programme scope or timeline will be managed through agreed RA TSO change control processes.

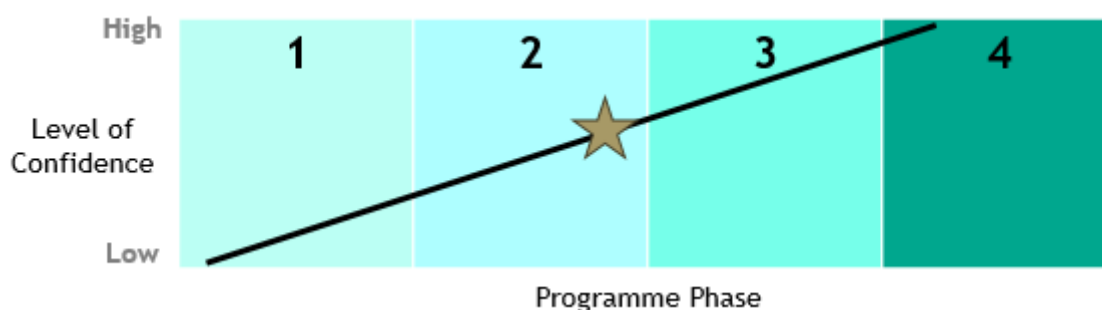
## Governance

Programme Governance is crucial to maintaining programme progression and delivering to the programme plan below. The PIR is to be managed by agreed RA/TSO All Island Programme (AIP) governance arrangements which will facilitate efficient decision making and allow for changes to be managed appropriately and mitigate programme delivery risks through proactive and transparent engagement with industry and RAs. The RAs and TSOs have established a process whereby information and draft papers are shared during development to maximise efficiency.

## Confidence In Timeline

Currently, the TSOs have an overall medium level of confidence in timelines. This is typical at this stage in programmes of this scale and complexity. More detailed timelines cannot be provided until:

- Funding from the CRU and UR for Phases 3-4 is approved
- All IT Vendors are mobilised, and design is complete
- Finalised PIR is agreed with RAs with commitment to work to timelines.



*Figure 1: Anticipated Level of Confidence by Programme Phase*



# Phased Implementation Roadmap

This section of the document provides an overview of the FASS Programme Plan in both a level 1 and level 2 format in addition to relevant programme milestones until December 2025. Following feedback, the TSOs have also included additional granularity for the schedule of upcoming consultations.

Following a Rolling Wave Planning approach, the TSOs will develop the PIR iteratively providing more granular detail as the FASS Programme progresses.

- Level 1 outlines the overarching plan covering implementation of the DASSA Arrangements with a go live of May 2027.
- Level 2 provides further granularity, specifically focused on the outlook for January 2025 to December 2025, including key programme milestones.
- Overview of programme milestones until December 2025, including milestone owners and interdependencies.
- Further granularity and detail on the programme schedule for Day 1 consultations.

For ease of review, changes to level 1 and level 2 roadmaps have been highlighted. New or amended activities have been highlighted in pink and new milestones for 2025 have a green outline.

Phased Implementation Roadmap V3.0 - Level 1

Legend

TSOs Led Activity

SEMC Decision

RA TSOs Activity

RAs Led Activity

DS3 Activity

New Activity

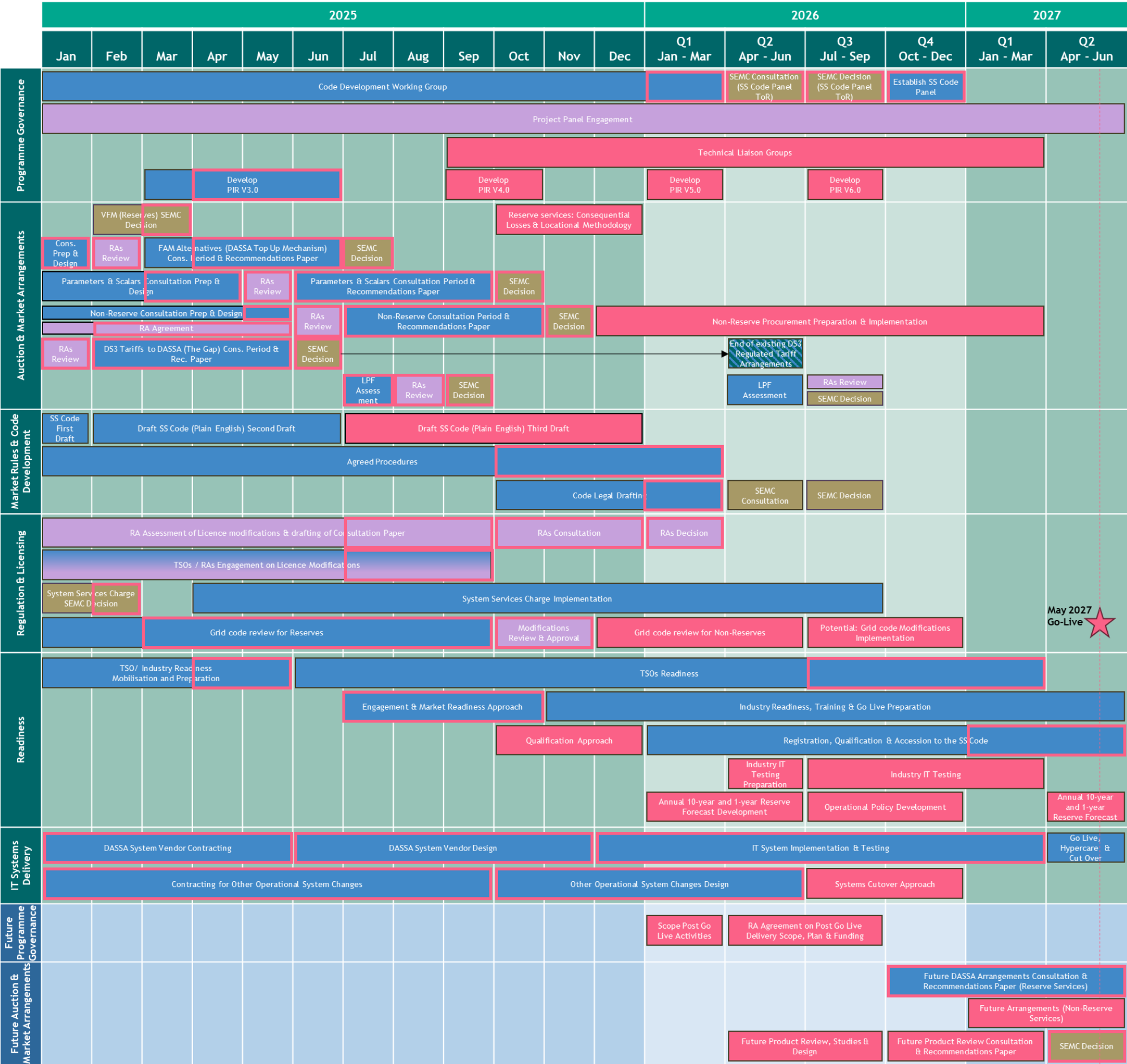


Figure 2: Phased Implementation Roadmap - Level 1

## Phased Implementation Roadmap V3.0 - Level 2

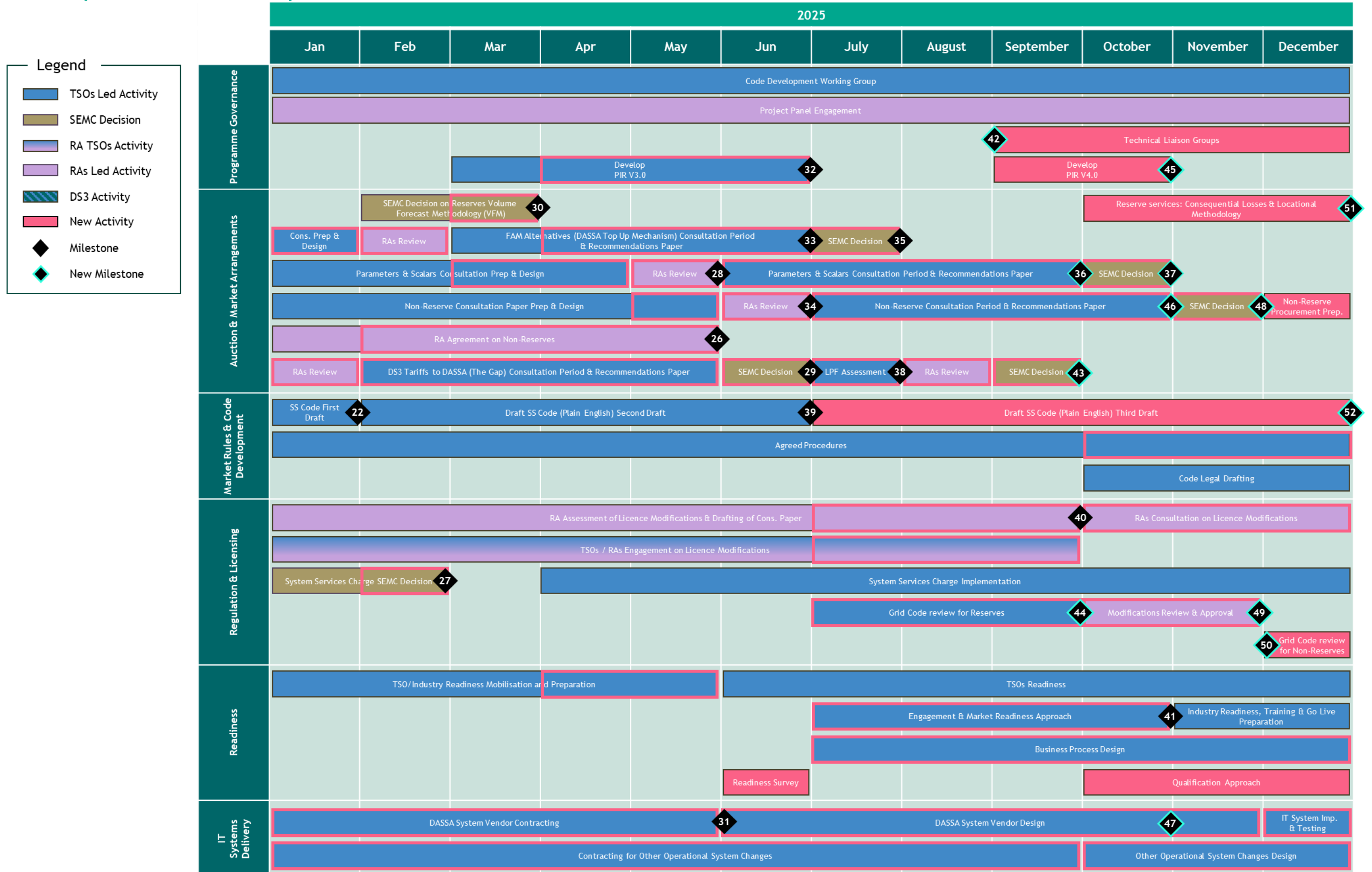


Figure 3: Phased Implementation Roadmap - Level 2

## Consultation Timelines

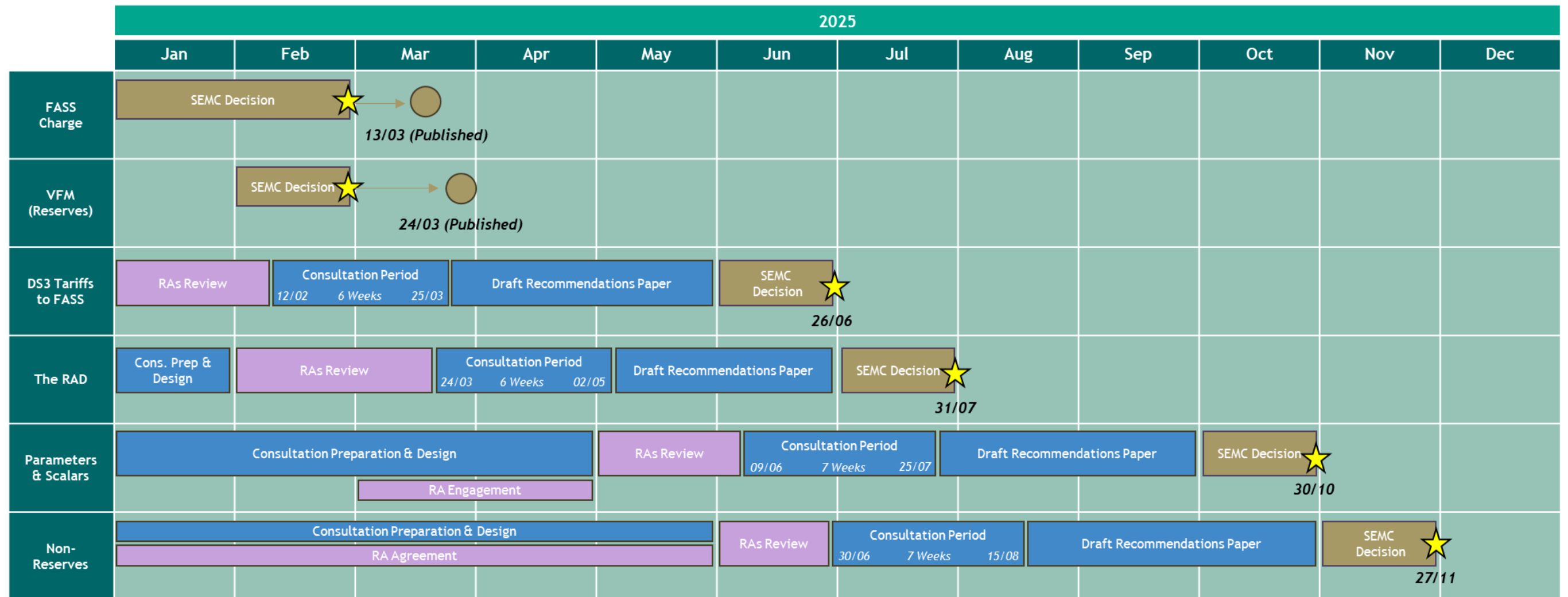


Figure 4: Phased Implementation Roadmap - Detailed schedule of Programme Consultation

## Milestone Reference List

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.01	Establish The Project Panel	-	RAs	Jan – Mar 2024	February 2024	Complete
FASS.02	SEMC Decision on Phased Implementation Roadmap	-	SEMC	Jan – Mar 2024	February 2024	Complete
FASS.03	Commence IT Systems Procurement	FASS.02	TSOs	Jan – Mar 2024	February 2024	Complete
FASS.04	Publish Phased Implementation Roadmap 1	FASS.02	TSOs	Jan – Mar 2024	March 2024	Complete
FASS.05	Publish FASS Daily Auction/Procurement Design Consultation Paper	FASS.04	TSOs	Jan – Mar 2024	March 2024	Complete
FASS.06	Commence Detailed Requirements	-	TSOs	Jan – Mar 2024	March 2024	Complete
FASS.07	Establish System Service Code Development Working Group Terms of Reference	FASS.04	TSOs	Apr – Jun 2024	April 2024	Complete
FASS.08	Issue List of Proposed Licence Modifications to RAs	-	TSOs	Apr – Jun 2024	November 2024	Complete
FASS.09	Publish FASS Daily Auction Product Review and Locational Methodology Consultation Paper	-	TSOs	Apr – Jun 2024	May 2024	Complete
FASS.10	FASS Programme Funding Request Approval	-	RAs	Apr – Jun 2024	June 2024	Complete
FASS.11	Publish FASS Daily Auction/Procurement Design Recommendation Paper	FASS.05	TSOs	Apr – Jun 2024	June 2024	Complete
FASS.12	SEMC Decision on FASS Daily Auction/Procurement Design	FASS.11	SEMC	Jul – Sep 2024	July 2024	Complete
FASS.13	Issue Annual Layered Procurement Assessment Recommendations Paper 2024	-	TSOs	Jul – Sep 2024	July 2024	Complete
FASS.14	Publish FASS Daily Auction Product Review and Locational Methodology Recommendation Paper	FASS.09	TSOs	Jul – Sep 2024	August 2024	Complete
FASS.15	Commence Grid Code Review for Reserve Services	FASS.14	TSOs	Jul – Sep 2024	September 2024	Complete
FASS.16	Publish Phased Implementation Roadmap 2	FASS.04	TSOs	Jul – Sep 2024	September 2024	Complete

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.17	SEMC Decision on FASS Daily Auction Product Review and Locational Methodology	FASS.14	SEMC	Oct – Dec 2024	October 2024	Complete
FASS.18	SEMC Decision on Annual Layered Procurement Assessment 2024 (if required)	FASS.13	SEMC	Jul - Sep 2024	September 2024	Not Required
FASS.19	Issue System Services Charge Recommendations Paper	-	TSOs	Oct – Dec 2024	November 2024	Complete
FASS.20	Publish High Level Readiness Scope	FASS.12	TSOs	Oct – Dec 2024	November 2024	Complete
FASS.21	Issue Volume Forecasting Methodology Recommendation Paper including Volumes Requirements Reporting	FASS.17	TSOs	Oct – Dec 2024	December 2024	Complete
FASS.22	Draft Plain English Version of SS Code – Frist Draft	FASS.07 FASS.12 FASS.17	TSOs	Jan – Mar 2025	January 2025	Complete
FASS.23	Commence Analysis of options for Non-Reserve Procurement, including LPF	-	TSOs	Oct – Dec 2024	October 2024	Complete
FASS.24	Mobilise Real Time Security Arrangements workstream (FAM Alternatives)	FASS.12	RAs & TSOs	Oct – Dec 2024	October 2024	Complete
FASS.25	Share suggested approach to TSO licence modifications	-	TSOs	Oct – Dec 2024	November 2024	Complete
FASS.26	RAs agreement on Analysis of options for Non-Reserve Procurement, including LPF	FASS.23	RAs	Jan – Mar 2025	May 2025	In Progress
FASS.27	SEMC Decision on System Services Charge	FASS.19	SEMC	Jan – Mar 2025	January 2025	Complete
FASS.28	Publish Parameters and Scalars Consultation Paper	FASS.12 FASS.17	TSOs	Dec – Feb 2025	May 2025	In Progress
FASS.29	SEMC Decision on DS3 SS Tariffs to DASSA	FASS.12	SEMC	Jan – Mar 2025	June 2025	Not Started
FASS.30	SEMC Decision on Volume Forecasting Methodology including Volumes Requirements Reporting	FASS.21	SEMC	Jan – Mar 2025	March 2025	Complete
FASS.31	Commence DASSA IT Systems Design	-	TSOs	Jan – Mar 2025	June 2025	Complete
FASS.32	Publish Phased Implementation Roadmap V3.0	FASS.16	TSOs	Jan – Mar 2025	June 2025	Complete

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.33	Issue FAM Alternatives (DASSA Top Up Mechanism) Recommendation Paper	FASS.24	TSOs	Jan – Mar 2025	June 2025	In Progress
FASS.34	Publish Non-Reserve Procurement, Products, Volumes & Locations Consultation Paper**	FASS.26	TSOs	Apr – Jun 2025	June 2025	In Progress
FASS.35	SEMC Decision on FAM Alternatives (DASSA Top Up Mechanism)	FASS.33	SEMC	Apr – Jun 2025	July 2025	Not Started
FASS.36	Issue Parameters and Scalars Recommendations Paper	FASS.28	TSOs	Apr – Jun 2025	September 2025	Not Started
FASS.37	SEMC Decision on Parameters and Scalars	FASS.36	SEMC	Apr – Jun 2025	October 2025	Not Started
FASS.38	Issue Annual Layered Procurement Assessment Recommendations Paper 2025	-	RAs	Apr – Jun 2025	July 2025	Not Started
FASS.39	Draft Plain English Version of System Services Code – Second Draft	FASS.22 FASS.27 FASS.30	TSOs	Apr – Jun 2025	June 2025	In Progress
FASS.40	Complete preparation for RAs Consultation on Licence Modifications	-	RAs	Apr – Jun 2025	September 2025	Not Started
FASS.41	Publish Engagement & Market Readiness Approach	FASS.20	TSOs	Apr – Jun 2025	October 2025	Not Started
FASS.42	Establish FASS Technical Liaison Groups	FASS.31	TSOs	Jul – Sep 2025	September 2025	New
FASS.43	SEMC Decision on Annual Layered Procurement Assessment 2025 (if required)	FASS.38	SEMC	Jul – Sep 2025	September 2025	New
FASS.44	Submit proposed Grid Code Modifications for Reserve Services to Joint Grid Code Mods Committee	FASS.15 FASS.17	TSOs	Jul – Sep 2025	September 2025	New
FASS.45	Publish Phased Implementation Roadmap 4	FASS.32	TSOs	Jul – Sep 2025	October 2025	New

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Milestone Target Quarter	Milestone Target Date	Status
FASS.46	Issue Non-Reserve Procurement, Products, Volumes & Locations Recommendations Paper**	FASS.26 FASS.34	TSOs	Oct – Dec 2025	October 2025	New
FASS.47	Issue Industry Technical Specification Documents	FASS.31	TSOs	Oct – Dec 2025	October 2025	New
FASS.48	SEMC Decision on Non-Reserve Procurement, Products, Volumes & Locations	FASS.46	SEMC	Oct – Dec 2025	November 2025	New
FASS.49	Approval of Grid Code modifications for Reserve Services	FASS.44	RAs	Oct – Dec 2025	November 2025	New
FASS.50	Commence Grid Code Review for Non-Reserve Services	FASS.48	TSOs	Oct-Dec 2025	December 2025	New
FASS.51	Issue Information Paper on Consequential Losses	FASS.30	TSOs	Oct-Dec 2025	December 2025	New
FASS.52	Draft Plain English Version of systems services code – Third Draft	FASS.29 FASS.35 FASS.37 FASS.39 FASS.48	TSOs	Oct – Dec 2025	December 2025	New

Notes:

- \*Pending further engagement and / or publication to EirGrid / SONI websites
- \*\*In the interest of efficiencies and accounting for feedback received, the TSOs will endeavour to deliver the procurement, product and volume forecasting design for non-reserve products two separate single consultation and recommendation papers. The TSOs reserve the right however to review this approach should it be required.



## Level 2 Milestone Descriptions (Open milestones, Jan - Dec 2025)

Milestone #	Milestone Name	Milestone Description
FASS.26	RAs agreement on Analysis of options for Non-Reserve Procurement, including LPF	RAs to agree on the analysis completed by the TSOs on the procurement approach for each non-reserve product post DASSA go live. Please note: This is not a SEMC Decision point and does preempt industry input on the subsequent consultation (FASS.34). However, the TSOs consider early input from the RAs as critical in order to deliver the holistic design for non-reserve services as a single consultation paper.***
FASS.28	Publish Parameters and Scalars Consultation Paper	Post RA review, TSOs to publish a Consultation Paper on the parameters and scalars that are to be applied in the DASSA Arrangements. The parameters addressed will include the compensation payment and the value functions used in the DASSA, among others.
FASS.29	SEMC Decision on DS3 SS Tariffs to DASSA	SEMC to publish a Decision Paper on the arrangements to be in place for the period between the current DS3 Regulated Arrangements end date (April 2026) and DASSA go Live (May 2027).
FASS.31	Commence DASSA IT Systems Design	Post vendor onboard, TSOs to commence IT System Detailed Design ahead of Implementation and Testing of the DASSA platform. Early IT Design activities for other systems to commence earlier where possible. Note: Update of milestone name to provide further clarity between the IT Design and Implementation / Test programme phases.
FASS.32	Publish Phased Implementation Roadmap V3.0	TSOs to publish the third iteration of the Phased Implementation Roadmap, providing monthly granularity of timelines until December 2025.
FASS.33	Issue FAM Alternatives (DASSA Top Up Mechanism) Recommendations Paper	TSOs to issue a Recommendations Paper on the DASSA Top Up Mechanism, referred to as Real Time Security Arrangements (FAM Alternatives) in PIR V2.0. The paper will be informed by Industry's feedback as collected in the consultation and RA input. TSOs to publish the Recommendation Paper, post engagement with the RAs.
FASS.34	Publish Non-Reserve Procurement, Products, Volumes & Locations Consultation Paper**	TSOs to publish a consultation paper on the procurement mechanism, Products, Volumes and Locational Methodology Arrangements for non-reserve products post DASSA go live.
FASS.35	SEMC Decision on FAM Alternatives (DASSA Top Up Mechanism)	SEMC to publish a decision on the DASSA Top Up Mechanism recommendation paper, referred to as Real Time Security Arrangements (FAM Alternatives) in PIR V2.0.
FASS.36	Issue Parameters and Scalars Recommendations Paper	TSOs to issue a Recommendations Paper on the parameters and scalars to the SEMC that are to be applied in the DASSA Arrangements. The parameters addressed will include the compensation payment, and the value functions used in the DASSA, among other configurable design parameters. The paper will be informed by Industry's feedback as collected in the consultation and RA input. TSOs to publish the Recommendation Paper, post engagement with the RAs.

Milestone #	Milestone Name	Milestone Description
FASS.37	SEMC Decision on Parameters and Scalars	SEMC to publish a Decision Paper on the parameters and scalars that are to be applied in the DASSA Arrangements.
FASS.38	Issue Annual Layered Procurement Assessment Recommendations Paper 2025	TSOs to complete an assessment of the need to introduce and leverage the Layered Procurement Framework at this time.
FASS.39	Draft Plain English Version of SS Code - Second Draft	TSOs to complete the second draft of the Plain English Version of the System Services Code, based on SEMC Decisions issued to date and input from the System Services Code Working Group. Note: Where open design decisions remain, sections will be draft or left as placeholder until formal direction on design is received.
FASS.40	Complete preparation for RAs Consultation on Licence Modifications	RAs to complete preparation for 28-day consultation on the license modifications required for FASS go live.
FASS.41	Publish Engagement & Market Readiness Approach	TSOs to publish an initial overview document setting out the programme's readiness approach for impacted stakeholders.
FASS.42	Establish FASS Technical Liaison Groups	TSOs to establish Technical Liaison Groups with Industry to work through the components of the DASSA IT Systems Design. Meeting cadence, agenda, etc. to be established ahead of first Group meeting.
FASS.43	SEMC Decision on Annual Layered Procurement Assessment 2025 (if required)	SEMC to publish a decision on the TSOs assessment of the need to introduce and leverage the Layered Procurement Framework, if required.
FASS.44	Submit proposed Grid Code Modifications for Reserve Services to Joint Grid Code Mods Committee	TSOs to submit proposed Grid Code Modifications to align TSOs' Grid Codes with Reserve Services Product Decision (FASS.17) to Joint Grid Code Modifications Committee.
FASS.45	Publish Phased Implementation Roadmap 4	TSOs to publish the fourth iteration of the Phased Implementation Roadmap, providing monthly granularity of timelines until December 2025.
FASS.46	Issue Non-Reserve Procurement, Products, Volumes & Locations Recommendations Paper**	TSOs to issue a recommendations paper on the procurement mechanism, Products, Volumes and Locational Methodology Arrangements for non-reserve products post DASSA go live. The paper will be informed by Industry's feedback as collected in the consultation and RA input. TSOs to publish the Recommendation Paper, post engagement with the RAs.
FASS.47	Issue draft Industry Technical Specification Documents	TSOs to publish first draft of Technical Specification documents for the DASSA System, subsequent drafts to be outlined in PIR V4.0. Note: Dependency on all SEMC decisions to baseline Technical Specification documents.

Milestone #	Milestone Name	Milestone Description
FASS.48	SEMC Decision on Non-Reserve Procurement, Products, Volumes & Locations	SEMC to publish a Decision Paper on the procurement mechanism, Products, Volumes and Locational Methodology Arrangements for non-reserve products post DASSA go live.
FASS.49	Approval of Grid Code modifications for Reserve Services	RAs to approve Grid Code modifications as recommended by the respective Grid Code Review Panels.
FASS.50	Commence Grid Code Review for Non-Reserve Services	Following the issuing of the SEMC Non-Reserves Decision, TSOs to commence review of the Grid Codes to determine if modifications are required to align with any changes to the products.
FASS.51	Issue Information Paper on Consequential Losses	TSOs to issue an information paper, inviting Industry feedback, on the calculation methodology for consequential losses in the Reserve Services Volume Forecasting Methodology.
FASS.52	Draft Plain English Version of System Services Code - Third Draft	TSOs to complete the third draft of the Plain English Version of the System Services Code, based on SEMC Decisions issued to date and input from the System Services Code Working Group. Note: Where open design decisions remain, sections will be draft or left as placeholder until formal direction on design is received.

Notes:

- \*\*In the interest of efficiencies and accounting for feedback received, the TSOs will endeavour to deliver the procurement, product and volume forecasting design for non-reserve products as two separate consultation and recommendation papers. The TSOs reserve the right however to review this approach should it be required.

# Appendix

## Appendix A: Risks to Go live

The RAs have requested that the TSOs outline any risks or issues that could delay the go live date of May 2027. While there are no open issues that could delay the May 2027 go live date, the TSOs are monitoring and reporting on the below risks which may impact the go live date. TSOs will continue to closely monitor these risks with the RAs, seeking to mitigate where possible.

Risk Name	Risk Description	Severity	Mitigation
Migration from DS3 to FASS Arrangements	There is a risk that the arrangements chosen to transition from the current DS3 System Services Regulated Arrangements to FASS are complex. Any new arrangements would require resources to be reassigned from the FASS programme, resulting in delays to the FASS go live date.	High	Detailed transition planning to be undertaken to ensure a smooth transition. Clear communication and timely decision making and input by the RAs will be key to mitigating this risk.
Timeliness of Approvals	There is a risk that SEMC decision making, and RA approval(s) could take longer than anticipated, resulting in delays to the FASS go live date.	Medium	Joint RAs and TSOs All Island Programme (AIP) governance arrangements <sup>9</sup> are in place to avoid undue delays. RA/TSO document sharing and dedicated RA review time at consultation drafting stage is in place to facilitate early insight and increased understanding between both parties and is working well.
SME Resource Availability	There is a risk that the high demand on SME resources and competing requirements across major programmes across the TSOs may impact their capacity to support the FASS Programme, resulting in potential delays to the FASS go live date.	Medium	TSO programme teams are staffed and engaged to continue work at pace. External resources are being sought to mitigate internal constraints where possible. Timely and extensive engagement is required from key stakeholders to foresee any arising complexities in advance.
Onboarding of IT Vendors	Implementation of the Day 1 FASS arrangements requires the onboarding of both new IT vendors and FASS programme mobilisation of existing IT vendors. There is a risk a prolonged design phase will result in delays to vendor engagement and commitment to programme timelines.	Medium	Timely and extensive engagement is required from key stakeholders to foresee any arising complexities in advance.

<sup>9</sup> [AIP Approach to Governance and Revenue Recovery Arrangements.pdf \(semcommittee.com\)](#)

Risk Name	Risk Description	Severity	Mitigation
Industry Readiness	The introduction of the DASSA arrangements present a significant and complex change to industry trading arrangements. There is a risk that industry engage later than anticipated for significant system services market reform and are therefore under prepared. This risk could result in delayed programme timelines due to extended periods of industry readiness activities ahead of FASS go live.	Medium	Early and transparent engagement with industry on the market design. In addition to the Monthly Future Power Markets workshops, the TSOs will establish Technical Liaison Groups with Industry as outlined in PIR V3.0. Dedicated training, readiness and cut over preparations will also be outlined in subsequent iterations of the PIR.
IT Vendor Capacity	There is a risk that all major TSO programmes have a dependency on the same IT vendors and competing requirements. Thus, resulting in a risk that IT vendors may not have capacity to support the FASS Programme, resulting in potential delays to the FASS go live date.	Medium	Timely and extensive engagement is required from key stakeholders to foresee any arising complexities in advance.
Service Provider OEM Operational Testing	There is a risk that service providers will need to make material changes to their technology to provide newly defined system services. Feedback has been received through the Product Review & Locational Methodology consultation paper that significant engagement between providers and their OEM will be needed to test their ability to provide newly defined “faster” services. This may have a knock-on impact on overall programme timelines.	Medium	Monthly engagement with services providers is facilitated via the Future Power Markets Industry Workshop forum. Additionally, the TSOs will begin engagement with impacted stakeholders on the programme’s readiness activities via milestones FASS.20 and FASS.40. Further activities will also be included as part of PIR V4.0 including publication of a detailed qualification test approach.
SONI LC42 Implementation	The implications of licence condition 42 in the SONI licence on the programme have not yet been fully considered, as such the programme time and cost estimates are prepared on the assumption that licence condition 42 has not been implemented. Programme timelines and estimates would need to be revisited based on the implementation of licence condition 42 in the SONI TSO licence.	Medium	Agreed Governance jointly collated by TSOs, and RAs will allow necessary communication and engagement between TSOs and RAs to avoid undue risk and cost.
Code development delay	There is a risk that the code development will not be completed on time due to dependencies on SEMC decisions. This may result in the overall programme being delayed, affecting delivery milestones.	Medium	Continue to monitor System Services code development and additional resources onboarded.
Day 1 Scope	There is a risk that the FASS go live date may be delayed due to the complexity and breath of scope for Day 1 delivery. There is a risk that the TSOs may be directed to undertake additional Day 1	Medium	Joint RAs and TSOs All Island Programme (AIP) governance arrangements are in place to mitigate scope creep. A joint RA/TSO Design Issue Log has been

Risk Name	Risk Description	Severity	Mitigation
	activities or else make late changes to business design, resulting in potential delays to the FASS go live date.		established to flag potential risks and outstanding design items early.
Holistic DASSA Design	The final holistic FASS design is not known at this time with further SEMC decisions to follow. There is a risk that this will drive changes to the estimated programme costs.	Low	Extensive engagement through existing formal channels to ensure that there is a consistent understanding of programme scope and sufficient buy-in from key stakeholders.
Design misalignment	There is a risk that the RAs and the TSOs are not aligned on design proposals, leading to delays in TSOs' consultations, recommendation papers, SEMC decisions and ultimately the FASS go live date.	Low	A dedicated RA review time at consultation drafting stage has been added to the PIR to facilitate early insight and increased understanding between both parties and is working well. Additionally, the TSOs have added further optionality to consultation papers at the request of the RAs, providing greater flexibility in SEMC decision making. The TSOs note however that not all options may be deliverable for FASS go live.
Day 2 Scope	Following a best practice approach, Day 2 scope will be captured as a separate capital programme. There is a risk that a day 2 solution and/or additional workstreams will add complexity and costs should activities be required to run in parallel with planned Day 1 implementation activities.	Low	Extensive engagement through existing formal channels to ensure that there is a consistent understanding of programme scope and sufficient buy-in from key stakeholders.

## Appendix B: Milestone Reference List - With Tracked Changes

For ease of review, the TSOs have included tracked changes of updates made to the Milestone Reference List since publication of PIR V2.0 in September 2024.

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.01	Establish The Project Panel	-	RAs	Jan – Mar 2024	February 2024	Complete
FASS.02	SEMC Decision on Phased Implementation Roadmap	-	SEMC	Jan – Mar 2024	February 2024	Complete
FASS.03	Commence IT Systems Procurement	FASS.02	TSOs	Jan – Mar 2024	February 2024	Complete
FASS.04	Publish Phased Implementation Roadmap 1	FASS.02	TSOs	Jan – Mar 2024	March 2024	Complete
FASS.05	Publish FASS Daily Auction/Procurement Design Consultation Paper	FASS.04	TSOs	Jan – Mar 2024	March 2024	Complete
FASS.06	Commence Detailed Requirements	-	TSOs	Jan – Mar 2024	March 2024	Complete
FASS.07	Establish System Service Code Development Working Group Terms of Reference	FASS.04	TSOs	Apr – Jun 2024	April 2024	Complete
FASS.08	Issue List of Proposed Licence Modifications to RAs	-	TSOs	Apr – Jun 2024	November 2024	Complete
FASS.09	Publish FASS Daily Auction Product Review and Locational Methodology Consultation Paper	-	TSOs	Apr – Jun 2024	May 2024	Complete
FASS.10	FASS Programme Funding Request Approval	-	RAs	Apr – Jun 2024	June 2024	Complete
FASS.11	Publish FASS Daily Auction/Procurement Design Recommendation Paper	FASS.05	TSOs	Apr – Jun 2024	June 2024	Complete
FASS.12	SEMC Decision on FASS Daily Auction/Procurement Design	FASS.11	SEMC	Jul – Sep 2024	July 2024	Complete

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.13	Issue Annual Layered Procurement Assessment Recommendations Paper 2024	-	TSOs	Jul – Sep 2024	July 2024	Complete
FASS.14	Publish FASS Daily Auction Product Review and Locational Methodology Recommendation Paper	FASS.09	TSOs	Jul – Sep 2024	August 2024	Complete
FASS.15	Commence Grid Code Review for Reserve Services	FASS.14	TSOs	Jul – Sep 2024	September 2024	Complete
FASS.16	Publish Phased Implementation Roadmap 2	FASS.04	TSOs	Jul – Sep 2024	September 2024	Complete
FASS.17	SEMC Decision on FASS Daily Auction Product Review and Locational Methodology	FASS.14	SEMC	Oct – Dec 2024	October 2024	Complete
FASS.18	SEMC Decision on Annual Layered Procurement Assessment 2024 (if required)	FASS.13	SEMC	Jul - Sep 2024	September 2024	Not Required
FASS.19	Issue System Services Charge Recommendations Paper	-	TSOs	Oct – Dec 2024	November 2024	Complete
FASS.20	Publish High Level Readiness Scope	FASS.12	TSOs	Oct – Dec 2024	November 2024	Complete
FASS.21	Issue Volume Forecasting Methodology Recommendation Paper including Volumes Requirements Reporting	FASS.17	TSOs	Oct – Dec 2024	December 2024	Complete
FASS.22	Draft Plain English Version of SS Code – Frist Draft	FASS.07 FASS.12 FASS.17	TSOs	Jan – Mar 2025	January 2025	Complete
FASS.23	Commence Analysis of options for Non-Reserve Procurement, including LPF	-	TSOs	Oct – Dec 2024	October 2024	Complete
FASS.24	Mobilise Real Time Security Arrangements workstream (FAM Alternatives)	FASS.12	RAs & TSOs	Oct – Dec 2024	October 2024	Complete
FASS.25	Share suggested approach to TSO licence modifications	-	TSOs	Oct – Dec 2024	November 2024	Complete
FASS.26	RAs agreement on Analysis of options for Non-Reserve Procurement, including LPF	FASS.23	RAs	Jan – Mar 2025	May 2025	In Progress
FASS.27	SEMC Decision on System Services Charge	FASS.19	SEMC	Jan – Mar 2025	January 2025	Complete



Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.28	Publish Parameters and Scalars Consultation Paper	FASS.12 FASS.17	TSOs	Dec – Feb 2025	May 2025	In Progress
FASS.29	SEMC Decision on DS3 SS Tariffs to DASSA	FASS.12	SEMC	Jan – Mar 2025	June 2025	Not Started
FASS.30	SEMC Decision on Volume Forecasting Methodology including Volumes Requirements Reporting	FASS.21	SEMC	Jan – Mar 2025	March 2025	Complete
FASS.31	Commence DASSA IT Systems Design	-	TSOs	Jan – Mar 2025	June 2025	Complete
FASS.32	Publish Phased Implementation Roadmap V3.0	-	TSOs	Jan – Mar 2025	June 2025	Complete
FASS.33	Issue FAM Alternatives (DASSA Top Up Mechanism) Recommendation Paper	FASS.24	TSOs	Jan – Mar 2025	June 2025	In Progress
FASS.34	Publish Non-Reserve Procurement, Products, Volumes & Locations Consultation Paper**	FASS.26	TSOs	Apr – Jun 2025	June 2025	In Progress
FASS.35	SEMC Decision on FAM Alternatives (DASSA Top Up Mechanism)	FASS.33	SEMC	Apr – Jun 2025	July 2025	Not Started
FASS.36	Issue Parameters and Scalars Recommendations Paper	FASS.28	TSOs	Apr – Jun 2025	September 2025	Not Started
FASS.37	SEMC Decision on Parameters and Scalars	FASS.36	SEMC	Apr – Jun 2025	October 2025	Not Started
FASS.38	Issue Annual Layered Procurement Assessment Recommendations Paper 2025	-	RAs	Apr – Jun 2025	July 2025	Not Started
FASS.39	Draft Plain English Version of System Services Code – Second Draft	FASS.22 FASS.27 FASS.30	TSOs	Apr – Jun 2025	June 2025	In Progress
FASS.40	Complete preparation for RAs Consultation on Licence Modifications	-	RAs	Apr – Jun 2025	September 2025	Not Started
FASS.41	Publish Engagement & Market Readiness Approach	FASS.20	TSOs	Apr – Jun 2025	October 2025	Not Started
FASS.42	Establish FASS Technical Liaison Groups	FASS.31	TSOs	Jul – Sep 2025	September 2025	New

Milestone #	Milestone Name	Milestone Dependencies	Milestone Owner	Original Milestone Quarter	Milestone Target Date	Status
FASS.43	SEMC Decision on Annual Layered Procurement Assessment 2025 (if required)	FASS.38	SEMC	Jul – Sep 2025	September 2025	New
FASS.44	Submit proposed Grid Code Modifications for Reserve Services to Joint Grid Code Mods Committee	FASS.15 FASS.17	TSOs	Jul – Sep 2025	September 2025	New
FASS.45	Publish Phased Implementation Roadmap 4	FASS.32	TSOs	Jul – Sep 2025	October 2025	New
FASS.46	Issue Non-Reserve Procurement, Products, Volumes & Locations Recommendations Paper**	FASS.26 FASS.34	TSOs	Oct – Dec 2025	October 2025	New
FASS.47	Issue Industry Technical Specification Documents	FASS.31	TSOs	Oct – Dec 2025	October 2025	New
FASS.48	SEMC Decision on Non-Reserve Procurement, Products, Volumes & Locations	FASS.46	SEMC	Oct – Dec 2025	November 2025	New
FASS.49	Approval of Grid Code modifications for Reserve Services	FASS.44	RAs	Oct – Dec 2025	November 2025	New
FASS.50	Commence Grid Code Review for Non-Reserve Services	FASS.48	TSOs	Oct-Dec 2025	December 2025	New
FASS.51	Issue Information Paper on Consequential Losses	FASS.30	TSOs	Oct-Dec 2025	December 2025	New
FASS.52	Draft Plain English Version of systems services code – Third Draft	FASS.29 FASS.35 FASS.37 FASS.39 FASS.48	TSOs	Oct – Dec 2025	December 2025	New