

Public

Balancing Programme Webinar

September 2025

Webinar Agenda

#BPSepWeb25

Time	Agenda Item	NESO Presenters	Details
11:00 – 11:05	Welcome & Setting the Scene	Brendan Lyons , Balancing Programme Director	<ul style="list-style-type: none"> • Balancing transformation overview
11:05 – 11:55	Balancing Systems Update	Bernie Dolan , Principal Product Manager Chi-Ho Lam , Lead Product Manager Nisha Bhamidimarri , Senior Delivery Manager Leon Walker , Governance and Insights Manager	<ul style="list-style-type: none"> • Delivery progress since June 2025 • Utilisation statistics – small BMUs & batteries • FY 25/26 roadmap update • NESO business planning process & draft OBP roadmap for FY 26/27 & 27/28 • Digital enabler update: EDL/EDT transition plan & NBM integrations • GC0166 proof of concept testing
11:55 – 12:05	Forecasting Systems Update	Richard Sykes , Product Manager	<ul style="list-style-type: none"> • Delivery progress since June 2025 • FY 25/26 Roadmap update
12:05 – 12:25	Q&A	Beth Wilks , Strategy & Engagement Manager	<ul style="list-style-type: none"> • Hosted via Slido
12:25 – 12:30	Next Steps	Beth Wilks	<ul style="list-style-type: none"> • Engagement timeline • November in-person event sign-up
12:30	Close	Brendan Lyons	

Audience Participation

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There is time allocated to Q&A **towards the end of the session** - we will take all questions during this part of the agenda to ensure we get through all pre-prepared content.



Please post any questions you have for our speakers in **SLIDO** using **#BPSepWeb25** ensuring to list both your **full name and organisation** - this will enable us to follow up with you after the webinar if necessary. Type the above code into the Slido app or via Slido.com or scan the QR code.



Out of scope questions will be forwarded on to the appropriate NESO team or expert for a direct response. We may ask you to contact us by email to ensure we have the correct contact details for the response.



SLIDO will close at the end of today's webinar. If you have any further questions after the webinar, please get in contact with us at **box.balancingprogramme@neso.energy**



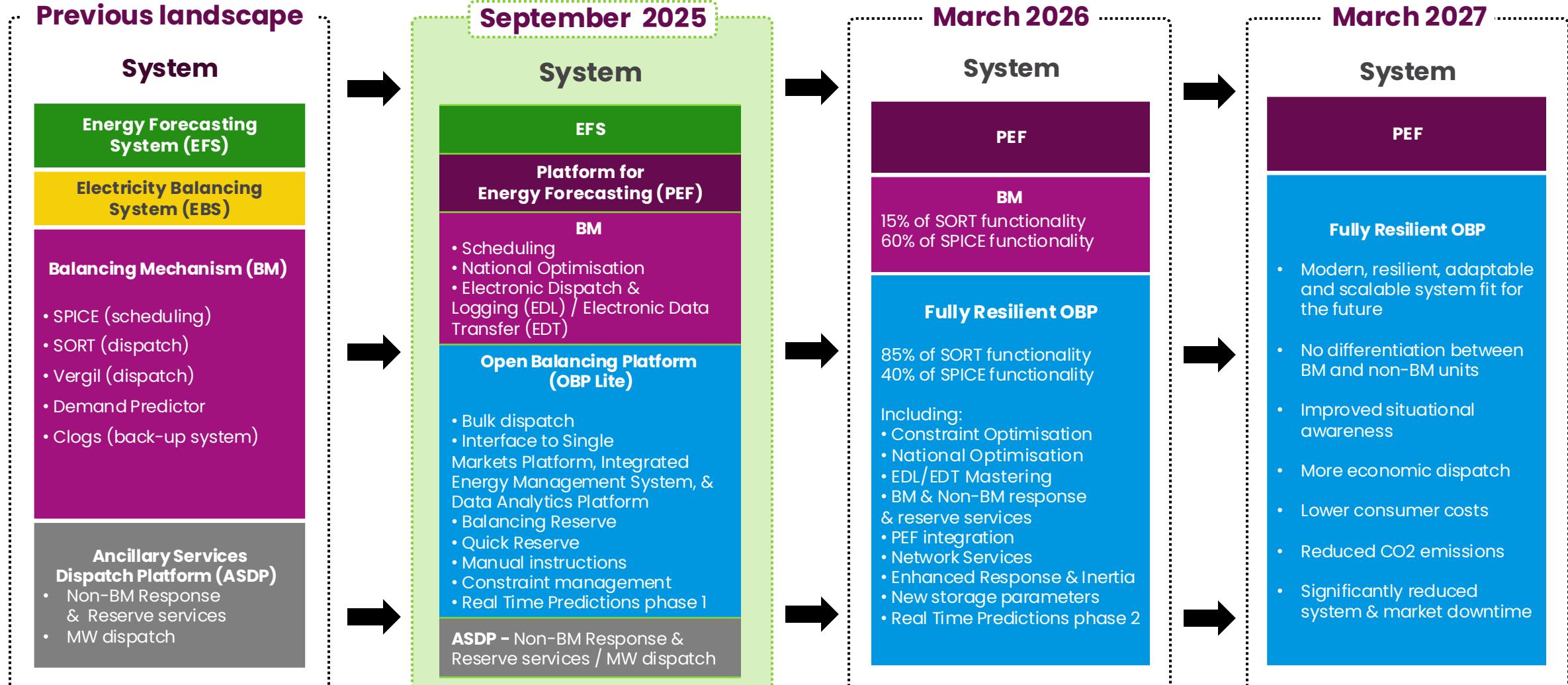
Today's webinar will be **recorded and published online** after the session, along with the slide pack.

Balancing Programme: Setting the scene

Brendan Lyons, Balancing Programme Director

System Transformation – Where are we?

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If you missed our June event, catch-up [here](#) to listen to more detail about where we are in our balancing & forecasting transformation journey.



Balancing Systems Update

Bernie Dolan, Principal Product Manager

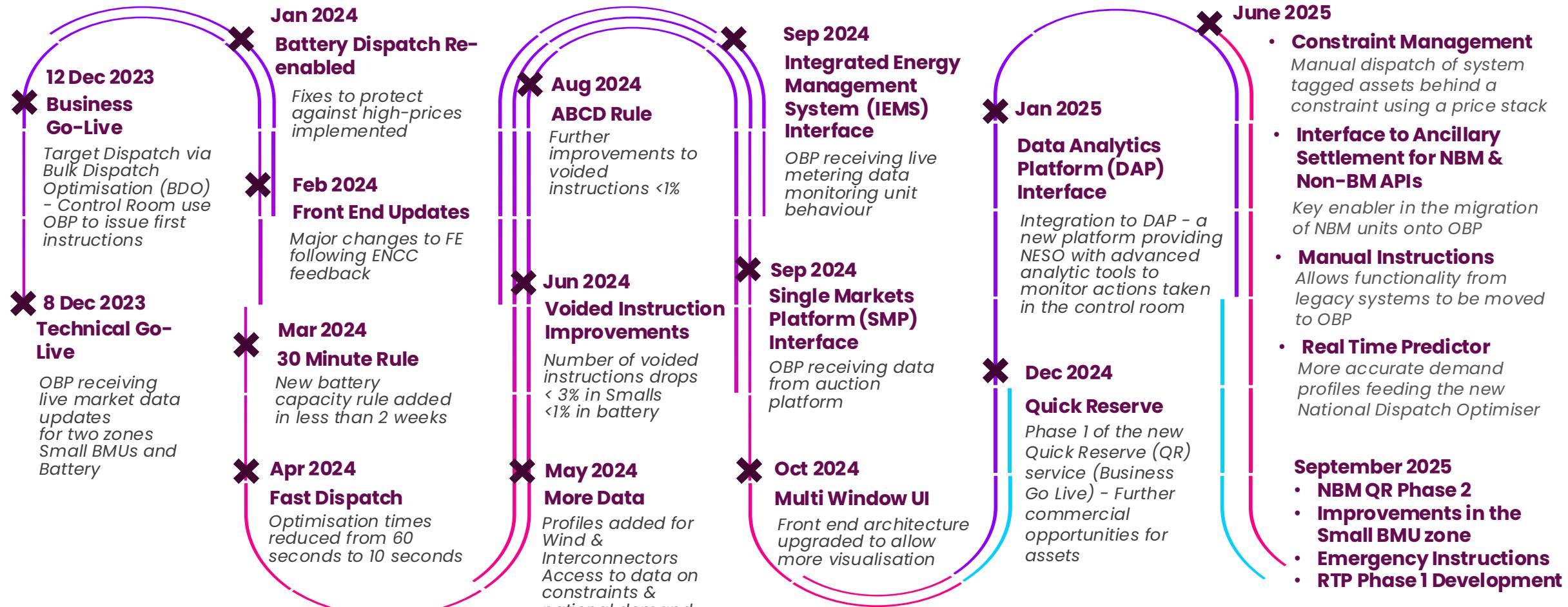
Chi-Ho Lam, Lead Product Manager

Nisha Bhamidimarri, Senior Delivery Manager

Leon Walker, Governance and Insights Manager

Open Balancing Platform (OBP) Key Delivery to Date

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Continued delivery on BM systems – SORT, SPICE, & VERGIL – to realise tactical benefits, until an enduring solution is available in OBP. Deliverables have included activity aimed at improving economic dispatch & transparency e.g., dispatch efficiency monitor

Key Areas of Progress Since June 2025

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Open Balancing Platform:

- **Go-Live of NBM QR Phase 2**



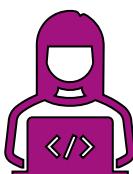
Deliverable: Significant architectural release, enabling the Business Go Live for NBM Quick Reserve. This new service is part of the suite of services being introduced by NESO to improve system security – QR is responsible for reacting to pre-fault disturbances. It is the first service delivered solely on OBP.

Benefit: Potential to deliver consumer savings in the region of £29-£32 million each year.

What does this mean for you?: Further commercial opportunities for assets with the correct parameters.

Open Balancing Platform:

- **Improvements in the Small BMU zone**



Deliverable: Enhancements to the Bulk Dispatch Optimisation (BDO) logic to better support units within the Small BMU zone.

Benefit: Reduction of partial loading of units, reduction in skip rate for units with long Minimum Zero Time / Minimum Non-Zero Time (MZT/MNZT) BMUs and faster optimisation times in the Small Zone.

What does this mean for you?: Improved economic dispatch; for further details on the improvements, catch up on our latest Optimisation Focus Group [here](#).

Open Balancing Platform:

- **Emergency Instructions**



Deliverable: Ability to manage Emergency Instructions from OBP for the first time, enabling Control Room users to issue Start and Cease instruction to units. Provides the foundation capability for other ancillary service instructions.

Benefit: Key step in enabling OBP to effectively support system security, moving critical functionality away from legacy systems, supporting longer term retirement plans.

What does this mean for you?: Provides the foundation for future co-optimisation of ancillary services resulting in greater dispatch efficiency.

Real Time Predictor (RTP):

- **RTP Phase 1 Development**



Deliverable: Key enhancements in the real-time predictor algorithm & user interface inc. faster computation of predictions & extended historical data feeds.

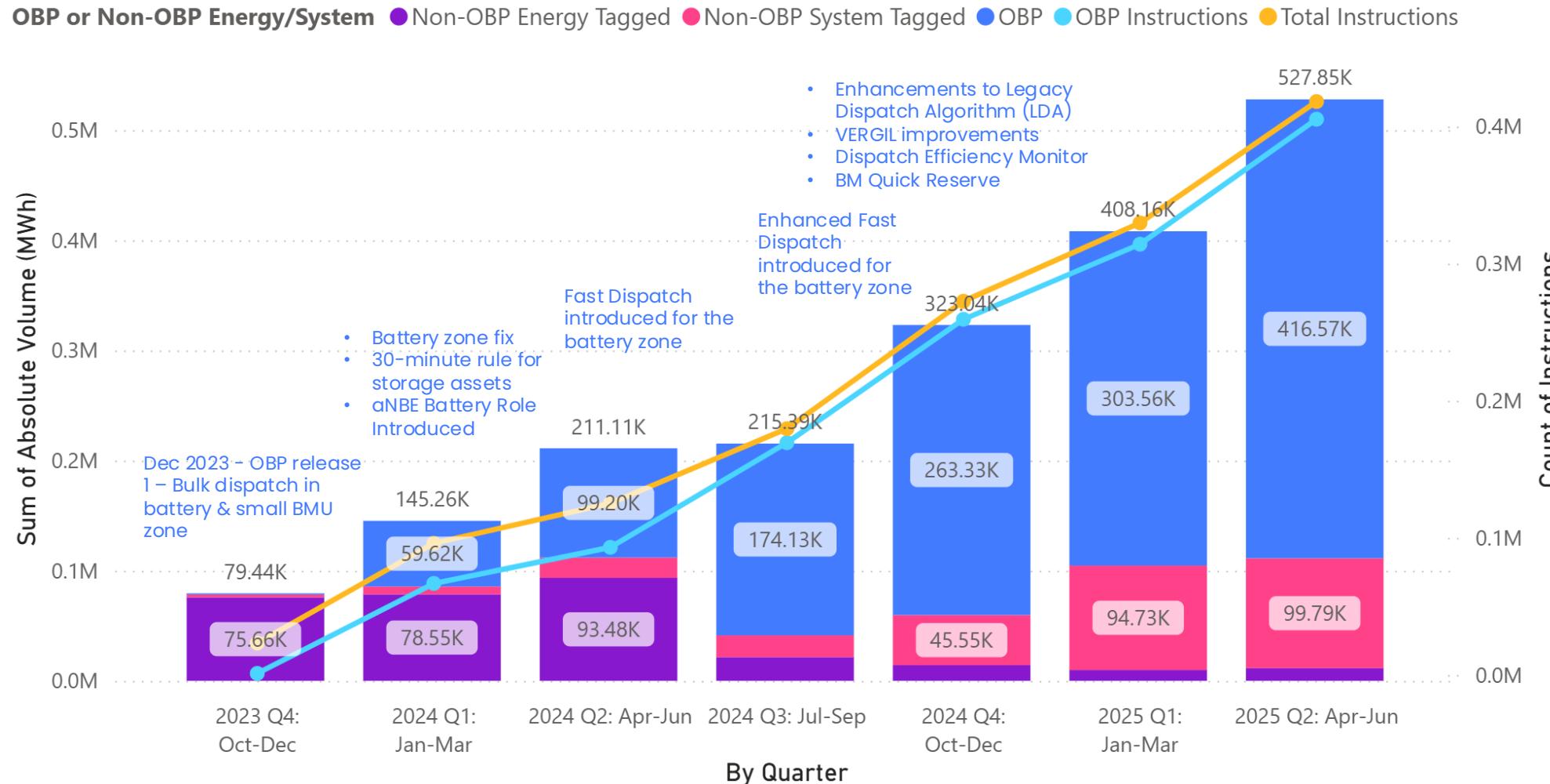
Benefit: Improved model accuracy inc. for complex and volatile demand profiles in real time. Supports the development of RTP phase 2, which will enable more accurate balancing actions resulting in lower balancing costs.

What does this mean for you?: More efficient dispatch and lower balancing costs.

Battery Utilisation Statistics

Absolute Volume (MWh) and Instruction Count by Date

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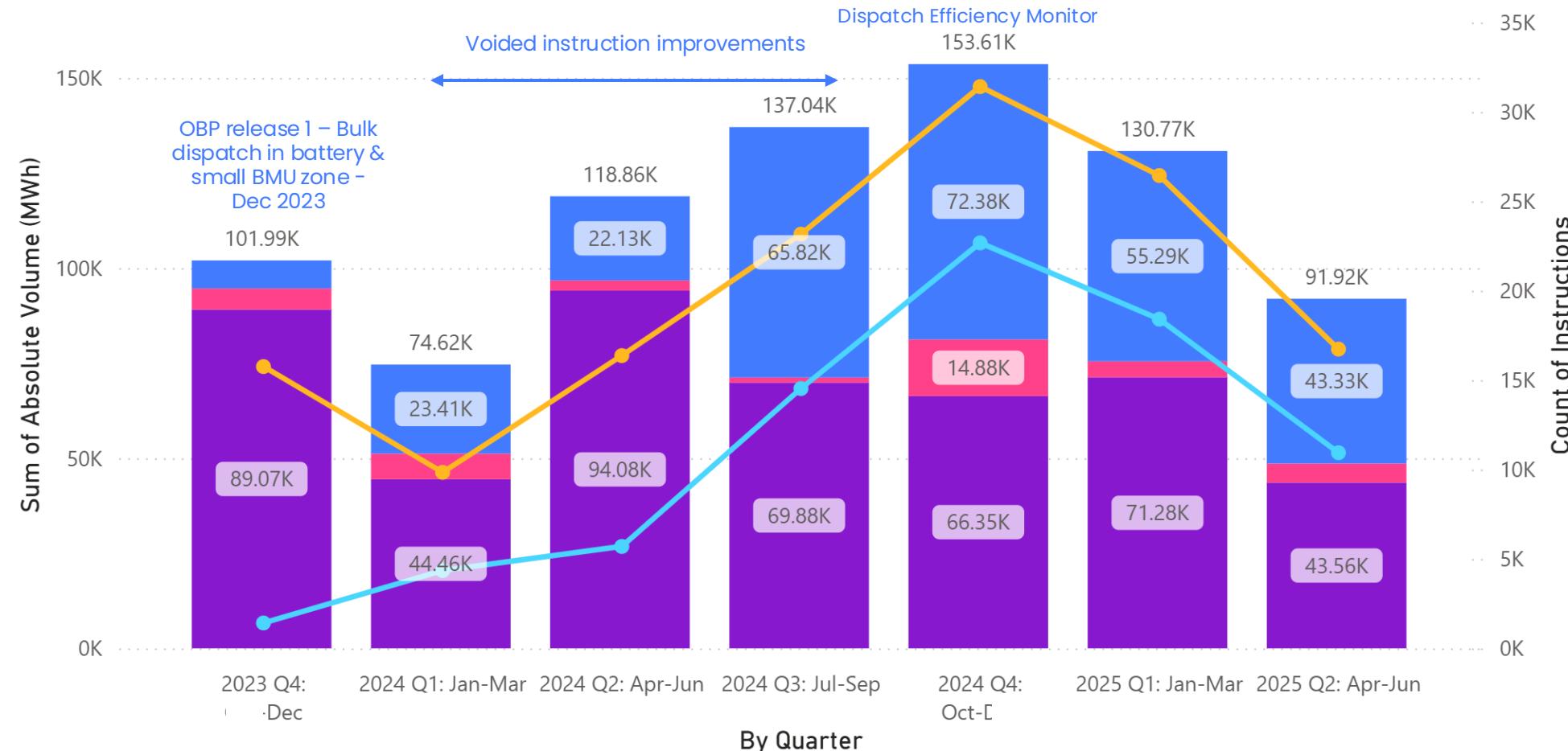
Comparing Oct-Dec 2023 to the latest period – 01 April to 30 June 2025, we observe the average daily volume (MWh) of Batteries in the BM has increased from 863MWh to 5801MWh (571% increase). The average number of daily instructions has increased from 253 to 4595 (1,715% increase).

Small BMU Utilisation Statistics

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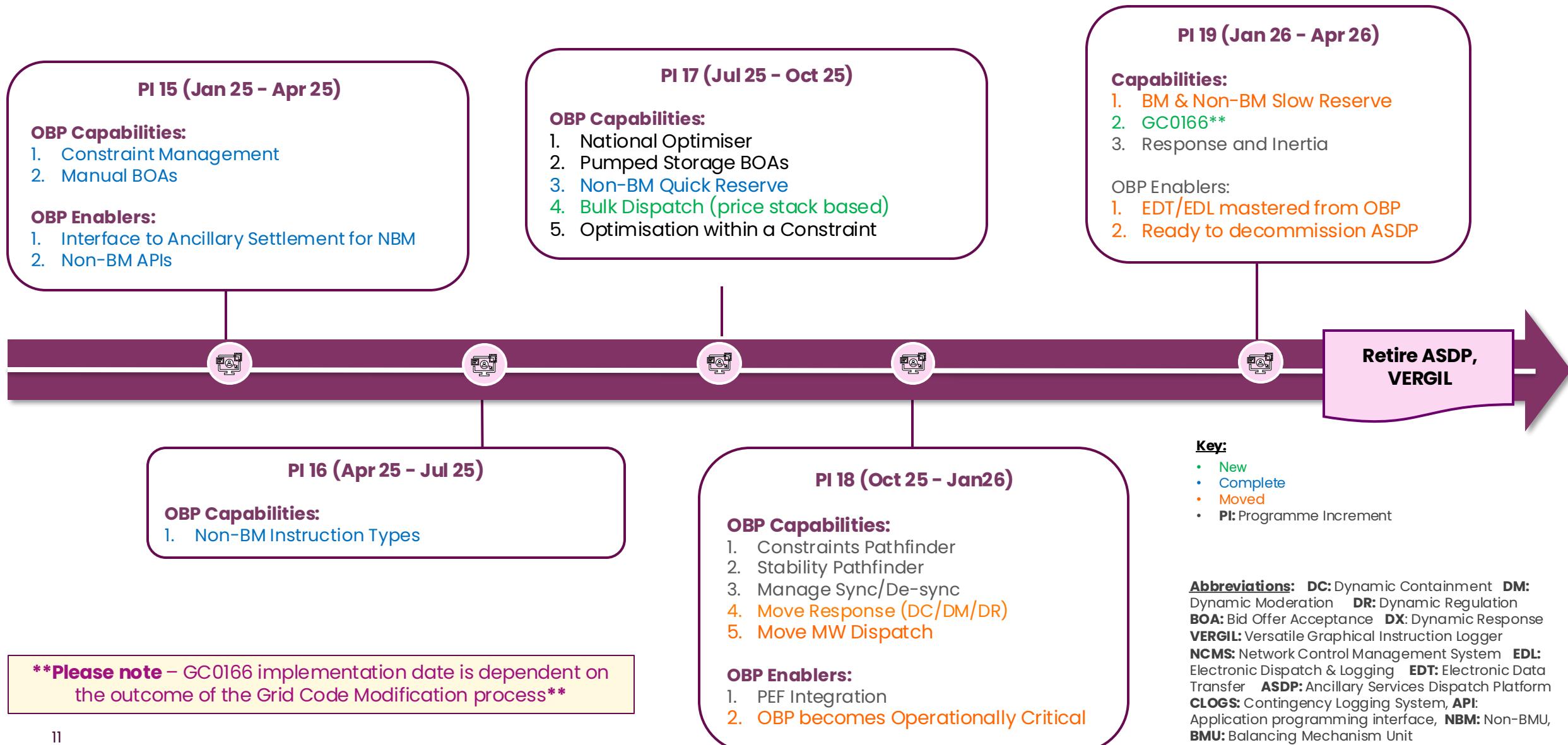
Absolute Volume (MWh) and Instruction Count by Date

OBP or Non-OBP Energy/System • Non-OBP Energy Tagged • Non-OBP System Tagged • OBP • OBP Instructions • Total Instructions



Comparing Oct-Dec 2023 to the latest period – 01 April to 30 June 2025, we observe the average daily volume (MWh) of Small BMUs in the BM has decreased from 1108MWh to 1010MWh (8.8% decrease). The average number of daily instructions has increased from 171 to 183 (7.37% increase).

OBP Roadmap – Upcoming Delivery FY 25/26



Changes to the Balancing Systems Release Plan

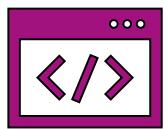
-  **Non-BM Quick Reserve:** Moved by one month to allow for additional security testing. The enablement of NBM Quick Reserve went live on OBP on 2 September 2025.
-  **Bulk Dispatch (Price Stack Based):** Previously this only covered Wind dispatch. Following requests from the control room, scope has been extended to cover all BMUs and NBMs and to allow different sub-sets of units to be covered (such as those behind a particular constraint, or covering a specific geographic area or service type).
-  **Move Response (DC/DM/DR):** We had aimed to cutover NBM registered units who provide dynamic response from ASDP to OBP by the end of November 2025 – we have since extended the cutover to January 2026. This allows additional time for market participant readiness activities and integration testing to ensure a smooth transition for all.
-  **Move MW Dispatch:** We have been co-ordinating our work plans with those of the DNOs. To get better alignment we are proposing to move MW Dispatch to the period Oct 2025 to Jan 2026.
-  **OBP becomes operationally critical:** Additional testing is required to prove all fail-over scenarios and so we have moved the take-over period to accommodate this.
-  **BM and non-BM Slow Reserve:** We expect our OBP dispatch solution for Slow Reserve to be ready for the original planned date. However, to fully utilise this new service we have a need to develop further our scheduling capabilities. To complete this work, we have decided to move the introduction of the new service into early 2026.
-  **GC0166:** Grid Code change GC0166 introduces new parameters for storage devices. Assuming Ofgem approval in Oct 2025 we will implement the change on our strategic platform with the transition of EDT/EDL.
-  **EDT/EDL Mastered from OBP:** Moved following feedback from Market Participants so that all parties can be ready for the start of the new transition date in Jan to Mar 2026.
-  **Ready to decommission ASDP:** Non-BM STOR is hosted on the ASDP platform. Because we have changed the date of "Slow Reserve" the time for decommissioning ASDP has also changed. Please note – the service moves first and then the hardware is taken out later.
-  **Interface to NCMS for constraints:** Based on business priorities the interface to NCMS has been moved to summer 2026.

NBM Quick Reserve Phase 2 Live

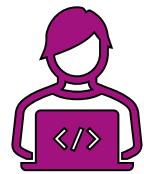
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The enablement of NBM Quick Reserve went live on OBP on 2 September 2025



Enabling NBM on OBP 2.0 is a major architectural milestone incorporating Enterprise changes across NESO. This includes an interface to Market Participants via a new NESO Secure Internet Gateway, direct automated interface to the Single Markets Platform (SMP) for unit registration, prequalification and contracts following auction award – allowing for units to be production enabled within an hour of prequalification, plus Settlement and Reporting for NBM units to the NESO Data Portal



Architecturally OBP itself has been enhanced to support new NBM dispatching capabilities implementing Open instructions with new Service rules such as Service Window Crossovers and ability to serve Firm and Optional service; in a “harmonised” manner for NBM Quick Reserve, providing a strong foundation for the prequalification and dispatch of Slow Reserve (both BM and NBM)



As this is a new Service, we have providers through various stages of Market Participant Testing and onboarding for the new Service. We anticipate the first NBM units offering Quick Reserve to be available to the Control Room very soon

NESO Quick Reserve website:

- Quick Reserve **Service Terms, Service and Procurement Design**
- **Business Logic Document**
- **Crossover Guidance**
- **IT Integration** – NBM Web Service (v4), Operational Metering, Performance Metering



Bulk Dispatch (Price Stack Based)

Expansion in scope of deliverable called 'Bulk Dispatch Wind BMUs (rule based)'



Our original intention was to use this approach for units that do not always follow their Physical Notification (PN)
- These units are difficult to model in an optimiser. We discussed this at a previous webinar, catch-up [here](#).



To make this approach useful the control room have requested we expand scope so that multiple unit types can be included and that the set of units being considered should be configurable (they can be zonal based, constraint based or geographically based).



It provides the control room with a second way to choose units to fulfil a requirement - dispatch engineers manually select multiple units creating a bulk volume of energy in price merit order; instructions are created in bulk and dispatched automatically.



In this case only price is considered as opposed to cost over an extended period.



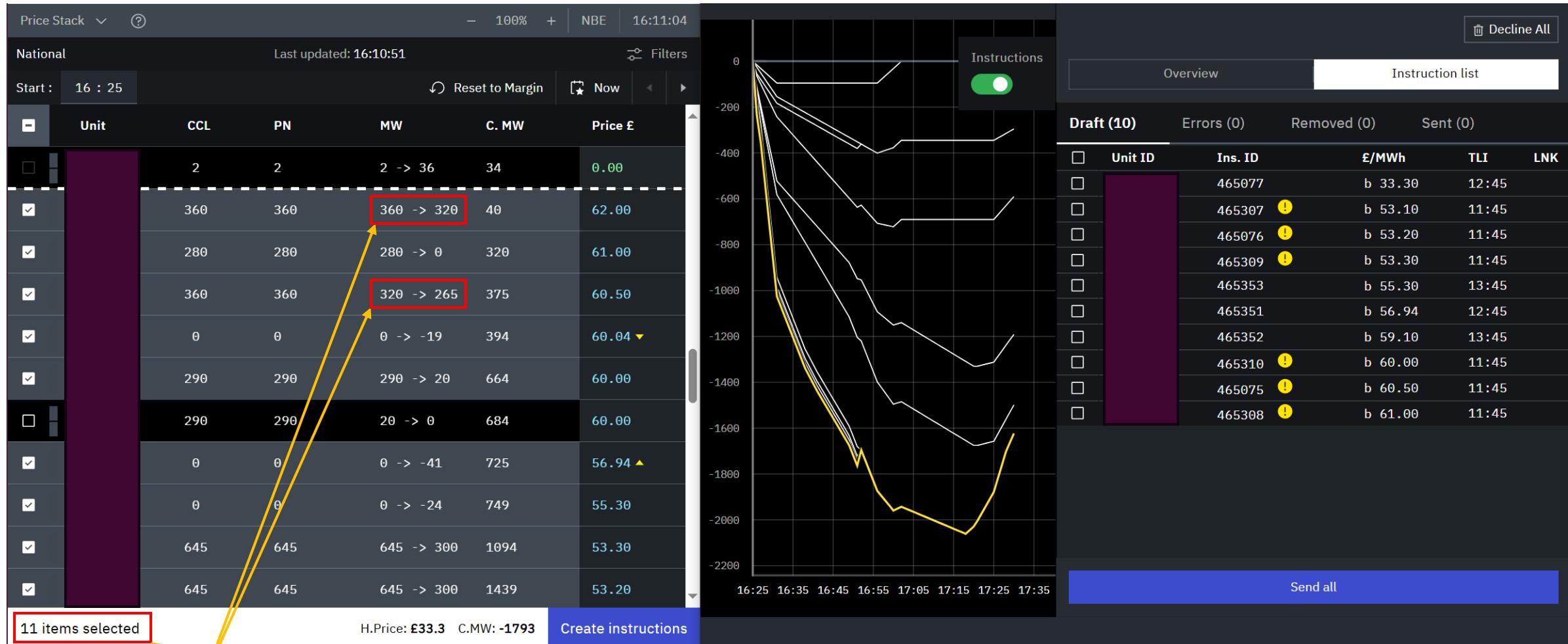
This approach does not work over multiple settlement periods when prices change but is still useful for shorter duration instructions and provides a manual solution for creating bulk instructions until the point all units can be included in optimisers.



Work will continue to include all units in optimisers; we are running several proofs of concept to evaluate the behaviour of the new algorithm

Bulk Dispatch (Price Stack Based)

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11 sets of Price Stacked MWs are selected in bulk, and OBP has created bulk instructions for 10 units as some of the price stacked MWs are for the same unit.

Slow Reserve



Whilst NBM QR gives a strong foundation for the prequalification and dispatch of Slow Reserve (both BM and NBM), Slow Reserve (SR) presents some challenges for modelling reserve in the scheduling process which were identified during detailed analysis and testing of the scheduling process in the summer.

SR service design introduces additional complexity in the scheduling process:



- Non-zero PNs allow units to participate in SR whilst also operating within other Balancing Markets and this affects the operating margin analysis process
- Identifying SR units behind a constraint requires additional modelling to support the constraint margin analysis process



As can be seen from our roadmaps, OBP does not takeover scheduling until next year – scheduling is still carried out in our legacy systems – Scheduling Platform in a Controlled Environment (SPICE)



Additional changes are required to both the scheduling process and our legacy system (SPICE) to enable the go-live of the SR service



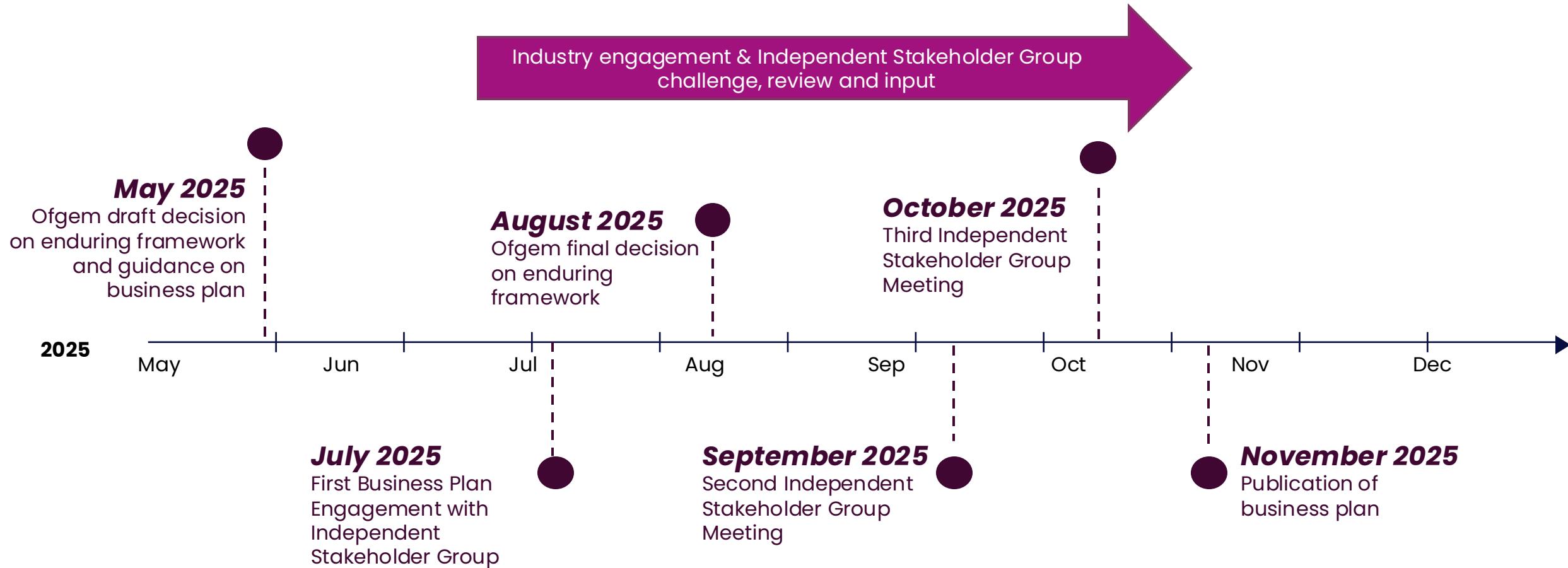
We will continue to procure Short Term Operating Reserve (STOR) until the SR service goes live. If you were planning to participate in the new Slow Reserve service from October 2025 and would like to discuss the opportunity to participate in STOR, please do reach out to us at commercial.operation@neso.energy or contact your Contract Manager to discuss.

NESO Business Planning Process & Draft OBP Roadmap for FY 26/27 & 27/28



Business Planning Timelines

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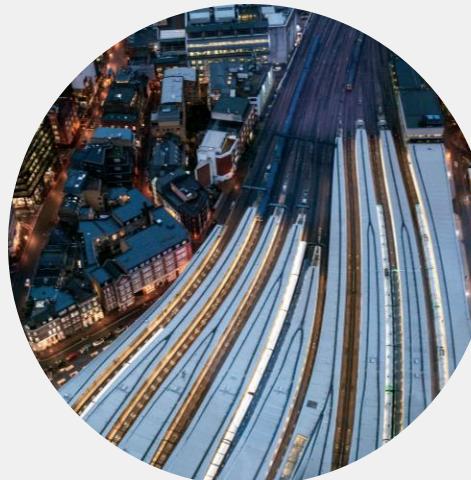
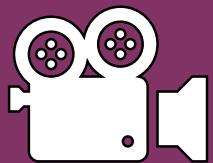


NESO-1 Business Plan April 2026 – March 2028

Performance Objective Webinars

- Two-year plan from April 2026–March 2028
- First post RIIO-2 business plan
- Performance Objectives in development and will build upon those set out in BP3.

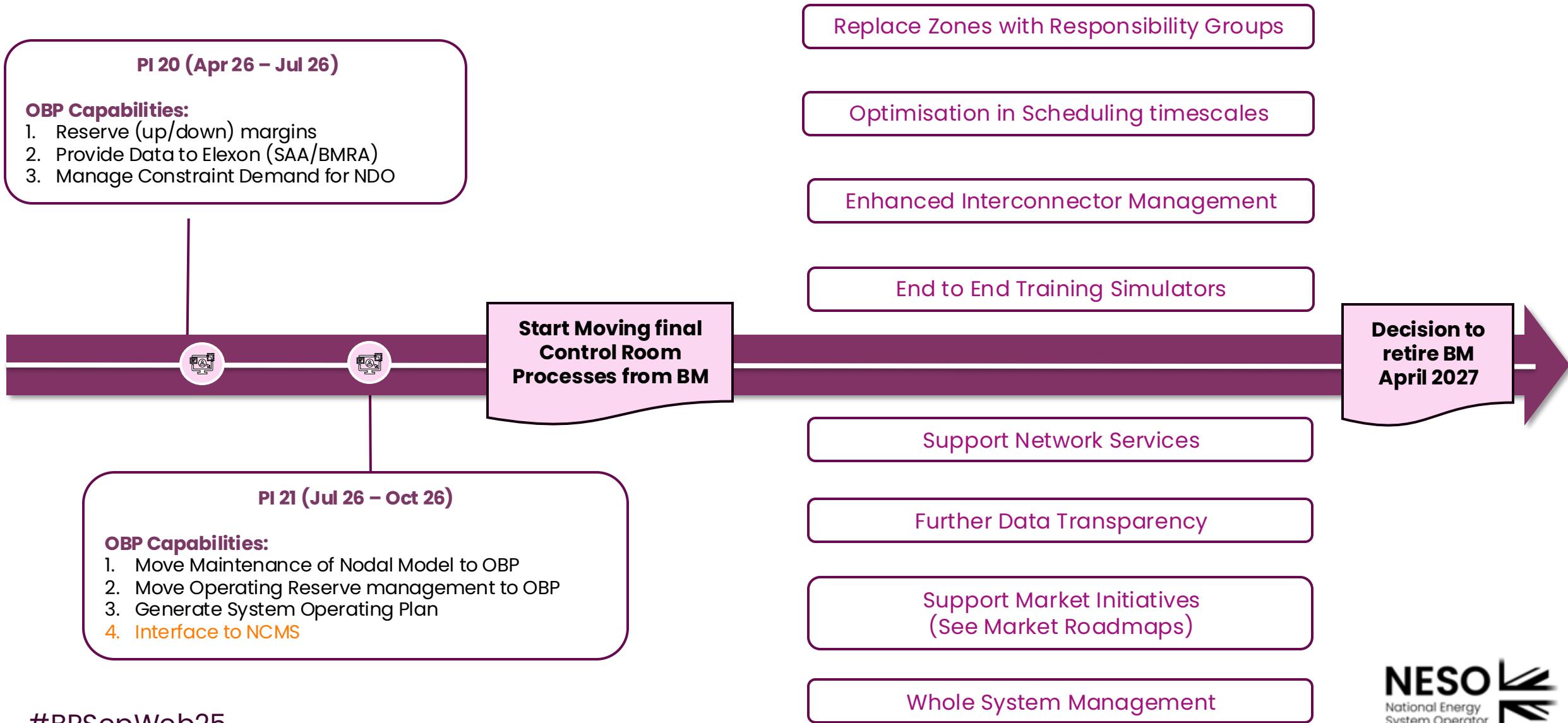
For a first look at our draft Performance Objectives for NESO-1, please catch-up on our business plan development webinar from 11 September 2025, available on our [website](#).



OBP Draft Roadmap FY 26/27

Key:

- Moved
- PI: Programme Increment



OBP Draft Roadmap FY 27/28

Whole System Management

Standardise communication
protocols

Refresh communication technologies

Further co-optimisation in real-time

Stochastic Scenario Modelling

Sub MW and real number dispatch

Co-optimising transmission and
energy actions

Security Constrained Economic
Dispatch

Digital Enabler Update – NBM Migration to OBP



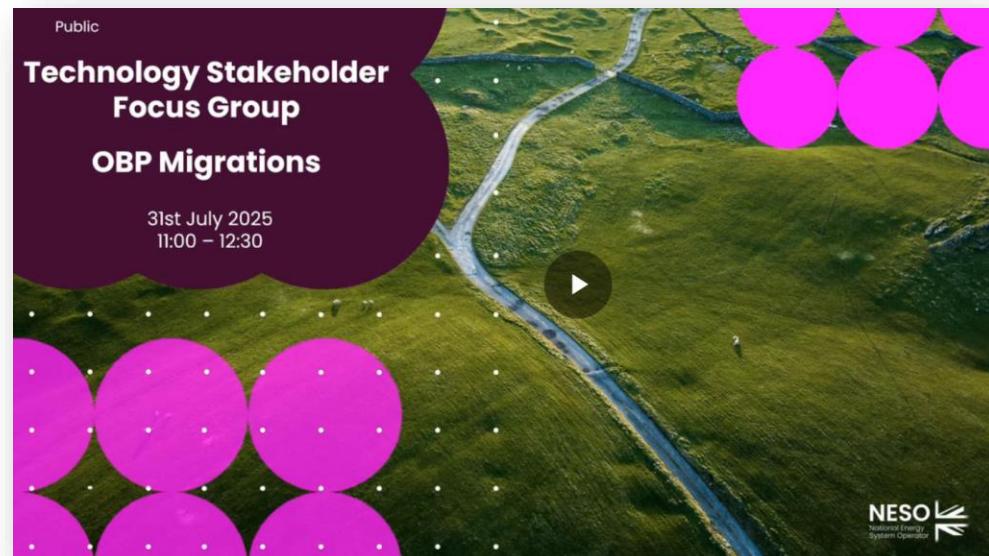
Chi-Ho Lam

NBM Migration to OBP Recap - Web Services & SIG

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NBM services are currently supported on the Ancillary Services Dispatch Platform (ASDP) and need to be **migrated to OBP**, as we look to retire ASDP in the future.

We have delivered a series of Technology Focus Groups throughout 2024 & 2025 covering this migration. Catch up below on our most recent forum from July 2025; access the slides [here](#).



NBM providers integrating with OBP, will do so via the new **NESO Secure Internet Gateway** (SIG).

The existing ASDP NBM API has been updated (v4) for NESO branding for OBP, otherwise the API is **structurally unchanged** to minimise impact to market participants.

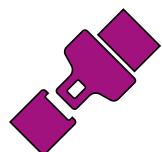
- Existing providers with STOR (Short Term Operating Reserve) and Fast Reserve services on ASDP **do not need to make any changes whilst on ASDP**.
- Providers implementing the new Reserve Services, Quick and Slow Reserve **will need to implement the new version** (as well as the new Reserve Service Terms and Business Logic) when they integrate with OBP.
- Providers that deliver dynamic response products with NBM registered units (existing and new) **will be required to integrate with OBP** - more information provided on the following slides.

NESO Secure Internet Gateway

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NESO has implemented a **new Secure Internet Gateway (SIG)** to support communication with Market Participants with OBP over the Internet



The SIG is a robust solution designed to protect NESO Critical National Infrastructure (CNI) Balancing Systems, assuring the security of internet traffic by providing comprehensive visibility into the content of incoming requests



This is further enhanced through **strict IP whitelisting**, allowing interaction only from approved sources



Communication with OBP for NBM Services will need to be via the SIG



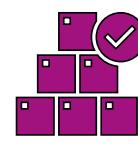
Providers will need to **exchange connection details and credentials** with NESO, and will need to set up in our respective gateway and network controls



For NESO, this can take up to 3 weeks, however, this can be completed in advance of any integration and market participant testing

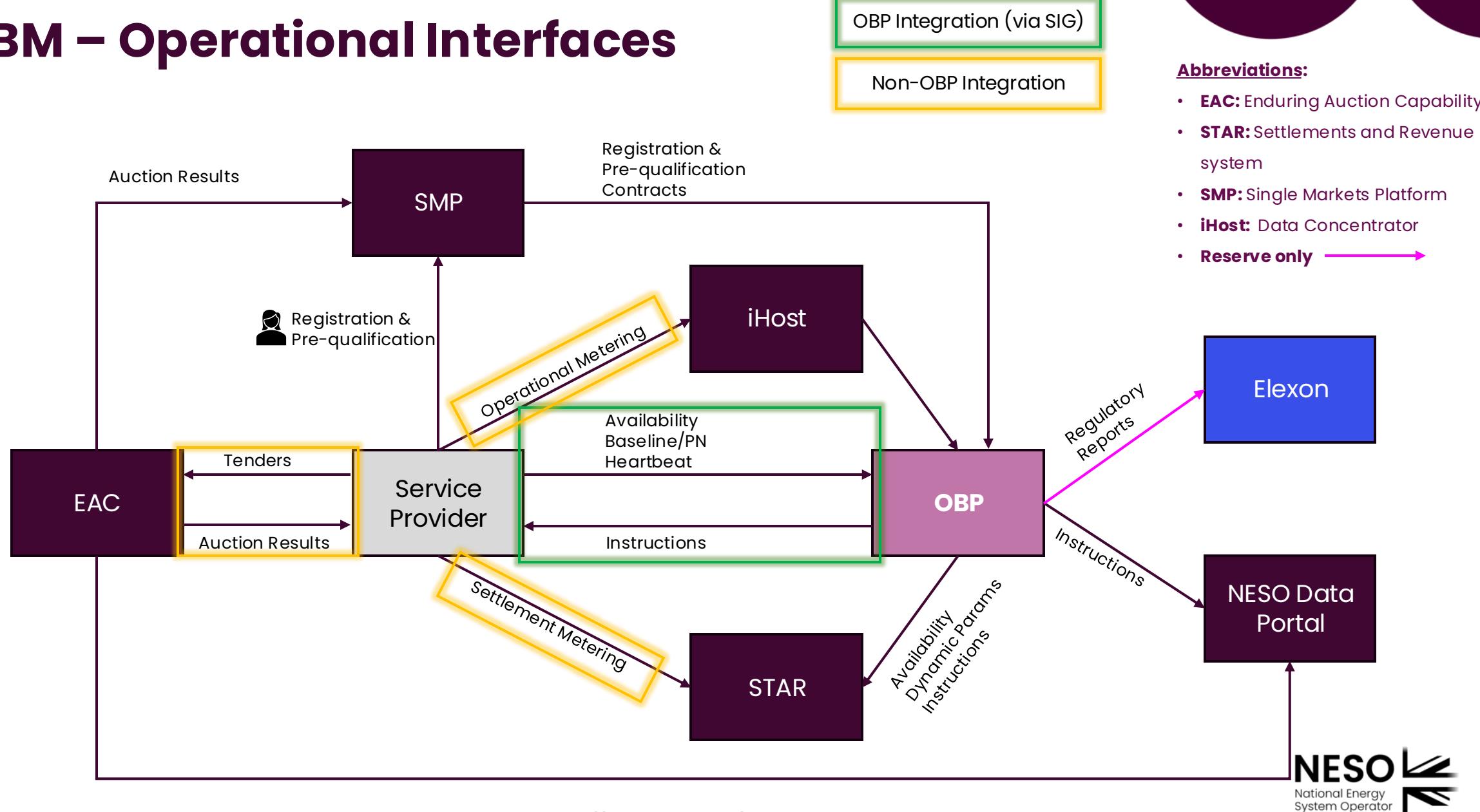


Once set up for the first service, it will not need to be performed again, unless integration details change.



For example, if providers have been integrated with the new NESO SIG as part of onboarding for NBM Quick Reserve, they will not need to do this step again for NBM Dynamic Response and Slow Reserve.

NBM – Operational Interfaces



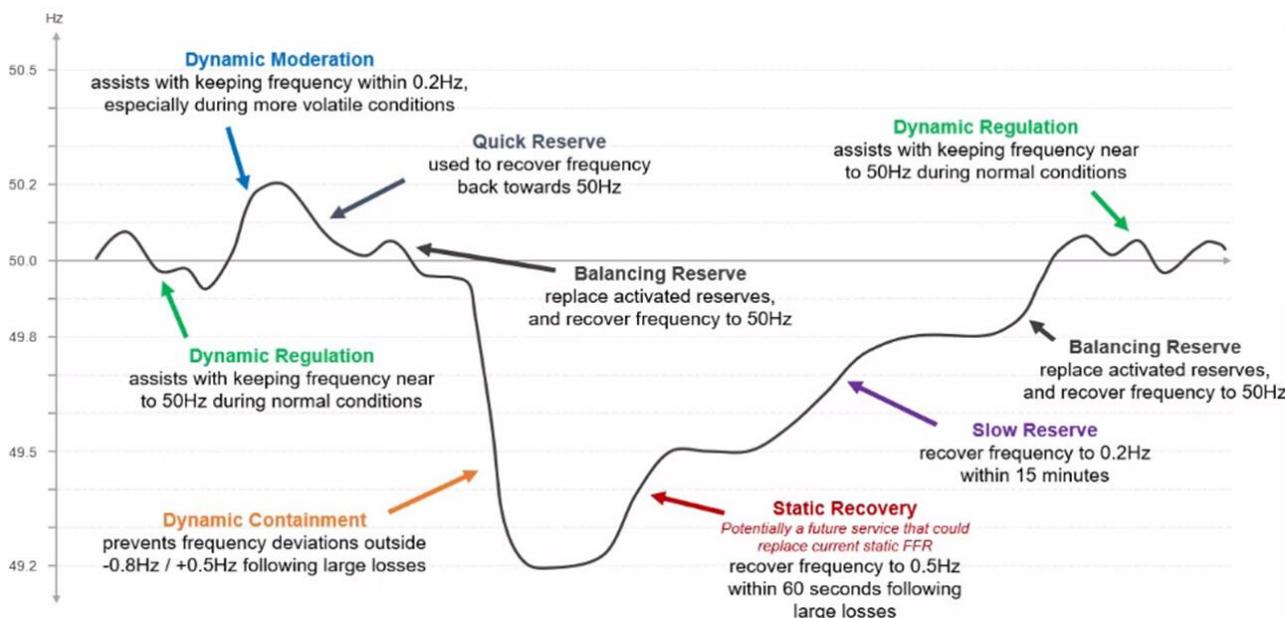
Abbreviations:

- **EAC:** Enduring Auction Capability
- **STAR:** Settlements and Revenue system
- **SMP:** Single Markets Platform
- **iHost:** Data Concentrator
- **Reserve only**

NBM Dynamic Response

Dynamic Containment (DC), Dynamic Moderation (DM) and Dynamic Regulation (DR) make up our suite of Dynamic Response Services. Together they work to control system frequency and keep it within our licence obligations of 50Hz plus or minus 1%.

- DM provides fast acting pre-fault delivery for particularly volatile periods
- DR is our staple slower pre-fault service
- DC is our post-fault service



In standardising and harmonising NBM Services in OBP, **some changes have been necessitated for NBM Dynamic Response migration:**

- A **new branded URL** will be utilised for integration
- Baseline/PN & Heartbeat are Unit specific – and are **changed (standardised)** across all services
- Availability, Dispatch/Cease (Reserve) and Nomination (Disarm/Rearm for Dynamic Response) remain **unchanged as Service specific**
- Existing NBM Dynamic Response service providers on ASDP need to make changes to move to this version as well as adjust for unit error validation when they migrate to OBP

References - [NESO Dynamic Response Service website](#):

- Dynamic Response **Service Terms, Service and Procurement Design**
- **Business Logic Document** – OBP Integration
- **IT Integration** – NBM Web Service (v4), Operational Metering, Performance Metering

NBM Dynamic Response Update

 **All providers that deliver dynamic response products with NBM registered units (existing and new) will be required to integrate with OBP** – catch up on our July Technology Focus Group [here](#), where this was discussed.

 If you are a provider that delivers dynamic response products with NBM registered units, you will have already received communications from us in July, August & September 2025 regarding this integration.

 We had aimed to cutover NBM registered units who provide dynamic response from ASDP to OBP by the end of November 2025 – we have since extended the cutover to January 26. This allows additional time for market participant readiness activities and integration testing to ensure a smooth transition for all.

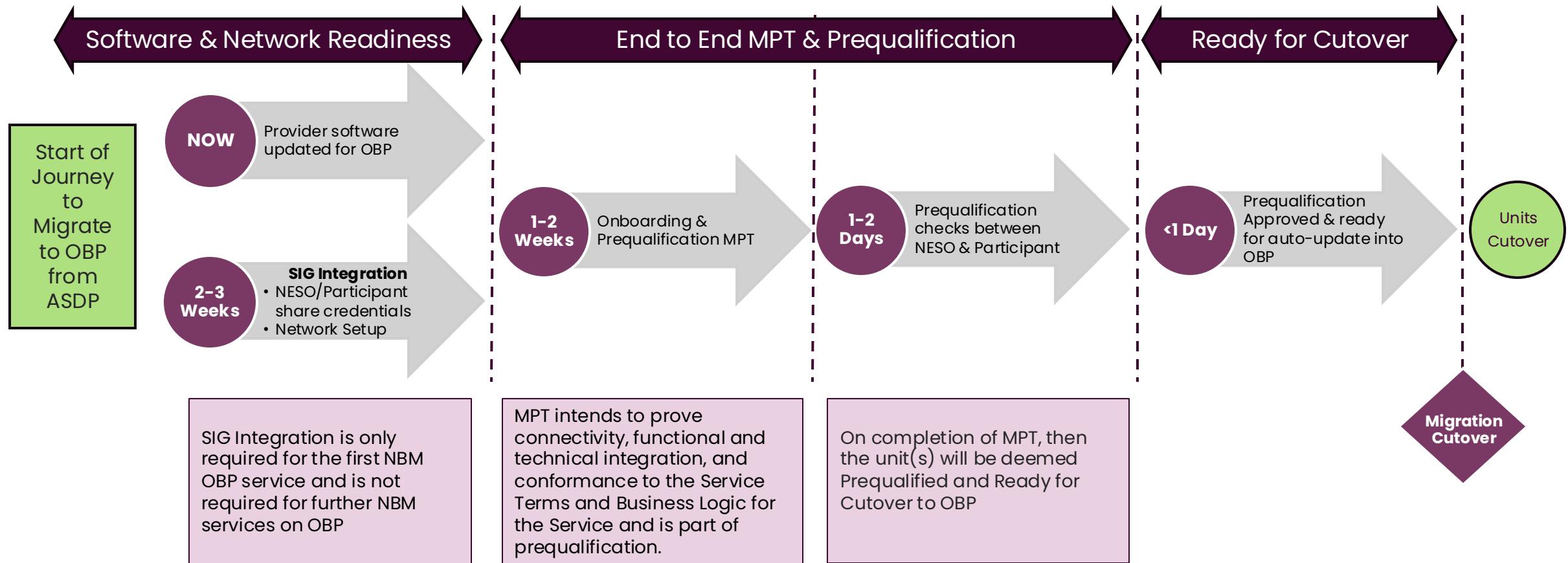
 There is no change required for providers that deliver Dynamic Response with BM registered units at this stage, and migration to OBP will be covered under the wider EDL/EDT migration.

 To integrate, **NBM providers will need to update their software to operate with OBP, pass the Secure Internet Gateway (SIG) process & complete Market Participant testing (MPT)**; documentation relating to the integration is available below:

- Web Services Specification** – Describes the version 4 of web services to be implemented from both NESO (OBP) system and Service Providers' systems. It details the technical specifications including WSDLs (Web Services Description Language) and XSDs (XML Schema Definition), methods and parameters to be used to invoke the WSDLs, connection patterns and protocols, security measures.
- Business Logic Document** – Covers the business rules and exceptions that Dynamic Response (DM/DR/DC) service providers must implement and applies to non-BM providers only.
- Dynamic Response Provider Guidance** – The information in this guidance is tailored to support new, existing and transitioning providers of the Dynamic Services. This document complements the service's contractual documents: the Service Terms, Procurement Rules and Balancing Services Glossary.

NBM Dynamic Response Migration Timeline

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If you are looking to provide Dynamic Response services with NBM units prior to the ASDP cutover to OBP, then you will need to integrate with ASDP – the ASDP Business Logic document for which can be found [here](#) and ASDP web services specification [here](#). You will then need to migrate to OBP to maintain provision of the Dynamic Response service.

Key Takeaways for NBM Migration to OBP

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NBM Quick Reserve is now live on OBP – Market Participant Testing started 6 August 2025

NBM Dynamic Response cutover to OBP **extended to Jan 26**

Slow reserve to be introduced on OBP in **PI 19 (Jan 26 – Apr 26)**



All providers that deliver Dynamic Response products with NBM registered units (existing and new) will be **required to integrate with OBP**

Providers implementing the new Reserve Services, Quick and Slow Reserve with NBM units will need to do the same



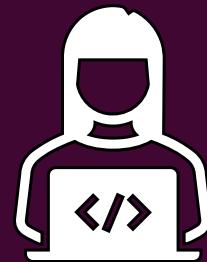
To integrate with OBP, providers with NBM units will need to:

- Update their software
- Integrate with the Secure Internet Gateway
- Complete Market Participant testing and onboarding



Contact contract managers & the Balancing Programme for any queries regarding NBM Market Participant Testing & integration
commercial.operation@neso.energy / box.balancingprogramme@neso.energy

Digital Enabler Update – EDT/EDL Transition to OBP



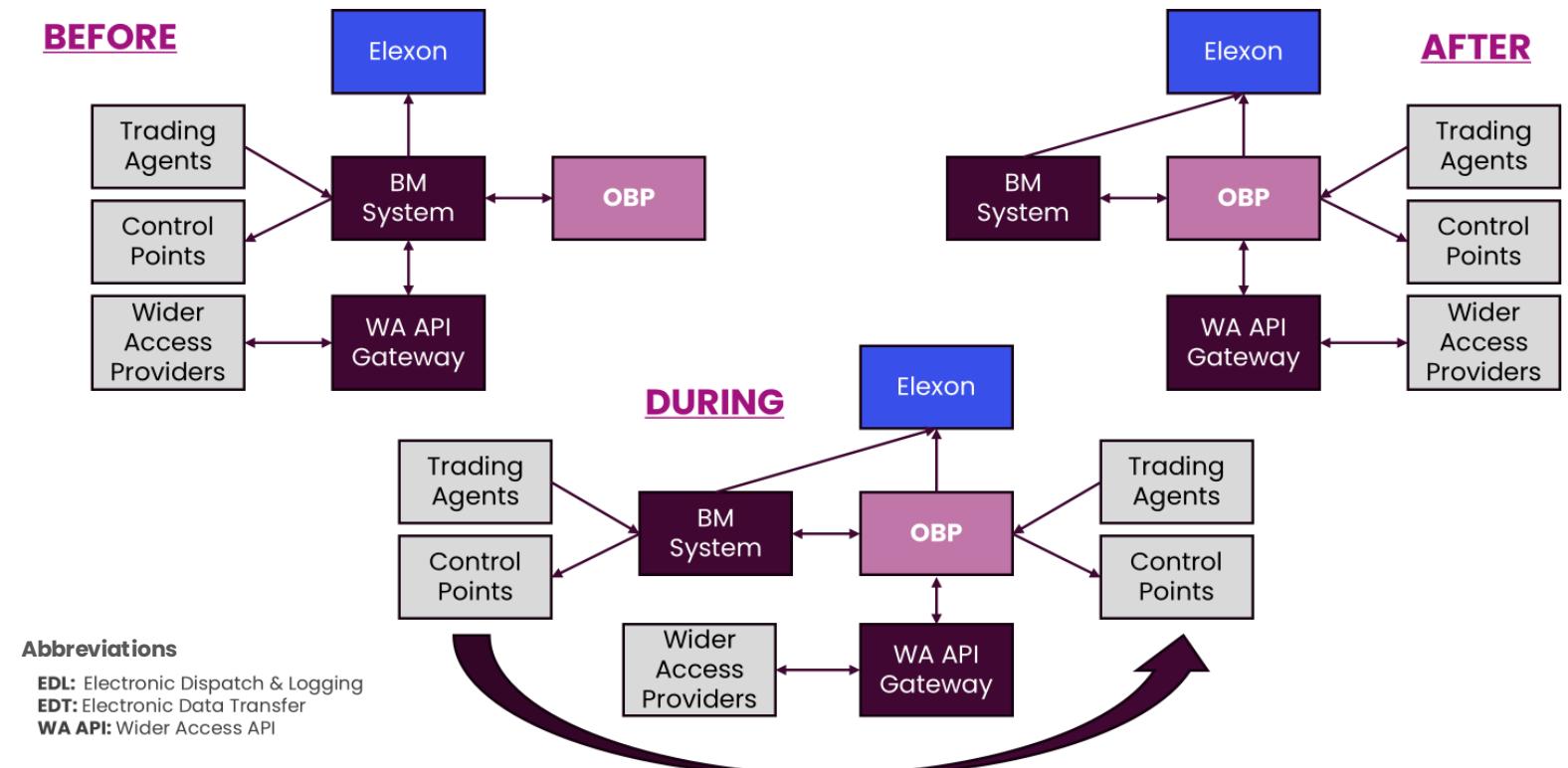
Nisha Bhamidimarri

EDT/EDL Transition Update

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NESO are updating their IT systems that enable BSC parties to send and receive Electronic Data Transfer (EDT) and Electronic Dispatch and Logging (EDL) data to/from NESO, as NESO transition BM system functionality onto the OBP.

As EDT and EDL are critical interfaces, NESO requires the support of Market Participants and Software Providers to ensure a smooth transition from the existing platform (BM systems) to the new platform (OBP).



Transition to take place within **6-week window between January 26 – March 26** to avoid registration delays & ensure continuity of operations.

EDT/EDL Transition

Start of Transition

BM Release to start transition
Planned Outage to market

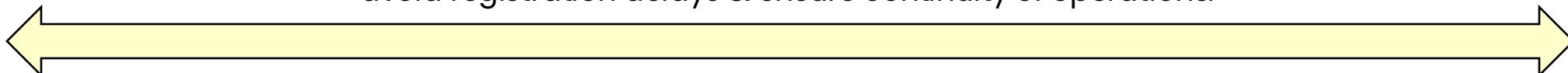
Phased Approach

Each week we will transition TA & CP in tranches
Tuesdays and Thursdays
There will be a short outage for the TA & CP doing the transition

Transition Complete

All TA & CPs transitioned from BM to OBP for EDT/EDL communications.
OBP is designed and operated as a continuously available system therefore participants will benefit from reduced planned outages of EDT/EDL

Transition to take place within **6-week window between January 26 – March 26** to avoid registration delays & ensure continuity of operations.



New EDT/EDL connections or new BMUs will not be able to join the production systems during this period.

Impact on Software Vendors & Market Participants

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EDT Changes:

- A new Fully Qualified Domain Name (FQDN)
- A different DNS server
- New IP addresses to be whitelisted
- A new security protocol for file transfer – FTPS; access to the BM test FTP server will continue to be provided until the end of the transition period
- Updated credentials for login to new system

EDL Changes:

- Connection established from a different IP address compared to BM
- Same pool of IP addresses as EDT – may be a different IP address
- Change in pattern of outage

Guidance Document

- Details on transition phases
- Impact on Software Vendors and Market Participants
- Overview of Testing Requirements
- Access the Guide for Market Participants [here](#)

 **We issued an updated transition guidance document in July 2025** – this covered:

- Updated contact details & transition dates
- More information on EDT FTPS and file handling
- More information on transition restrictions

Public

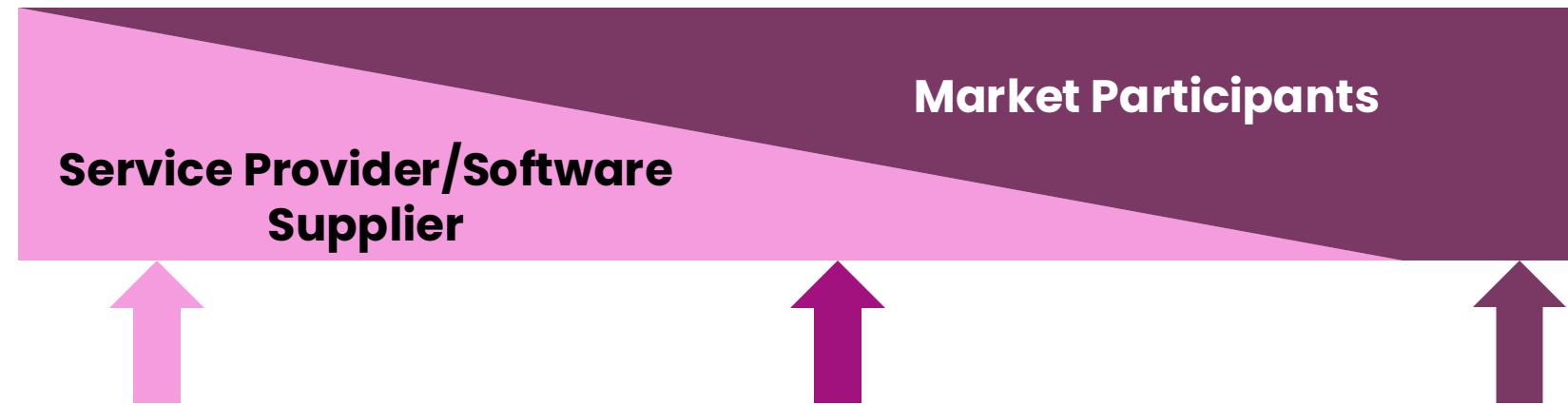
BM to OBP EDT / EDL Transition

Guide for Market Participants
V1.1, July 2025

NESO
National Energy
System Operator

Type of Testing with NESO

#BPSepWeb25



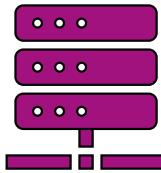
All tests for each hosting provider for select participants

Type Test for each software NAT and BPIT for each provider

All tests for each provider

EDT/EDL Transition Update

Where are we?



- ✓ Network design shaped and delivery work in progress
- ✓ Engaging with software providers & market participants re: readiness testing for the transition
- ✓ New guidance document published – see previous slide
- ✓ Market Participant test environment is built – currently undergoing penetration testing ahead of external party connectivity.



What next?

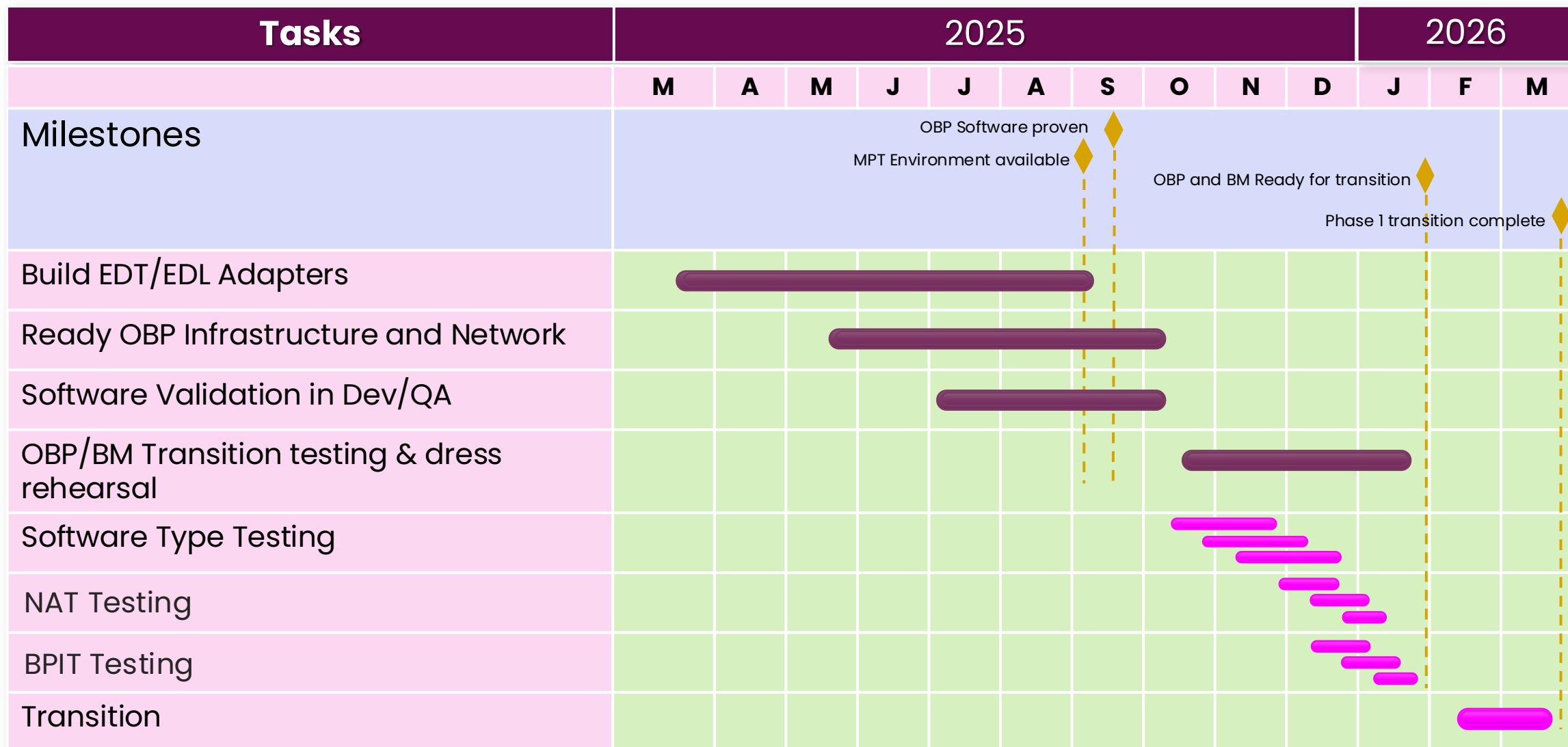
- Shadowing between BM & OBP – early testing has started
- Software suppliers, market participants with an on-premise solution, or those who have created their own bespoke EDT/EDL software should expect to receive an email by early October 2025 with IP addresses, Domain Name System (DNS), URLs, and an E2E Process for updating technical details
- Software Supplier type testing due to commence in October 2025
- NAT testing to take place between November 2025 – January 2026
- BPIT Lite testing to take place between December 2025 – January 2026

Wider Access API (WAAPI)

WAAPI providers will **not be migrated** however the system will be repointed to connect to OBP.

There will be a short outage to repoint the network connectivity. This will be towards the end of the transition.

Revised EDT/EDL plan on a page



GC0166 Proof of Concept Testing



Leon Walker

GC0166 Grid Code Change – Background Context

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What is the underlying problem this Grid Code change is looking to resolve?

-  GC0166 addresses the problem that Electricity Storage Modules (of limited duration) operating in the Balancing Mechanism can only export or import until empty or full.
-  The current parameters defined in the Grid Code and the Balancing and Settlement Code -Maximum Delivery Period and Maximum Delivery Volume - do not cater for bi-directional units.
-  NESO currently uses an interim arrangement to get around this - the '30-minute rule' - which requires providers to submit MEL/MIL values which can be sustained for a 30-minute period (with one minute ramp either side). This however limits how NESO uses these assets and does not allow NESO to plan in longer timescales.

The GC0166 working group proposed **additional parameters** to support the Optimiser algorithm:

Maximum Delivery Offer (MDO)

Maximum Delivery Bid (MDB)

Future State of Energy (FSoE)

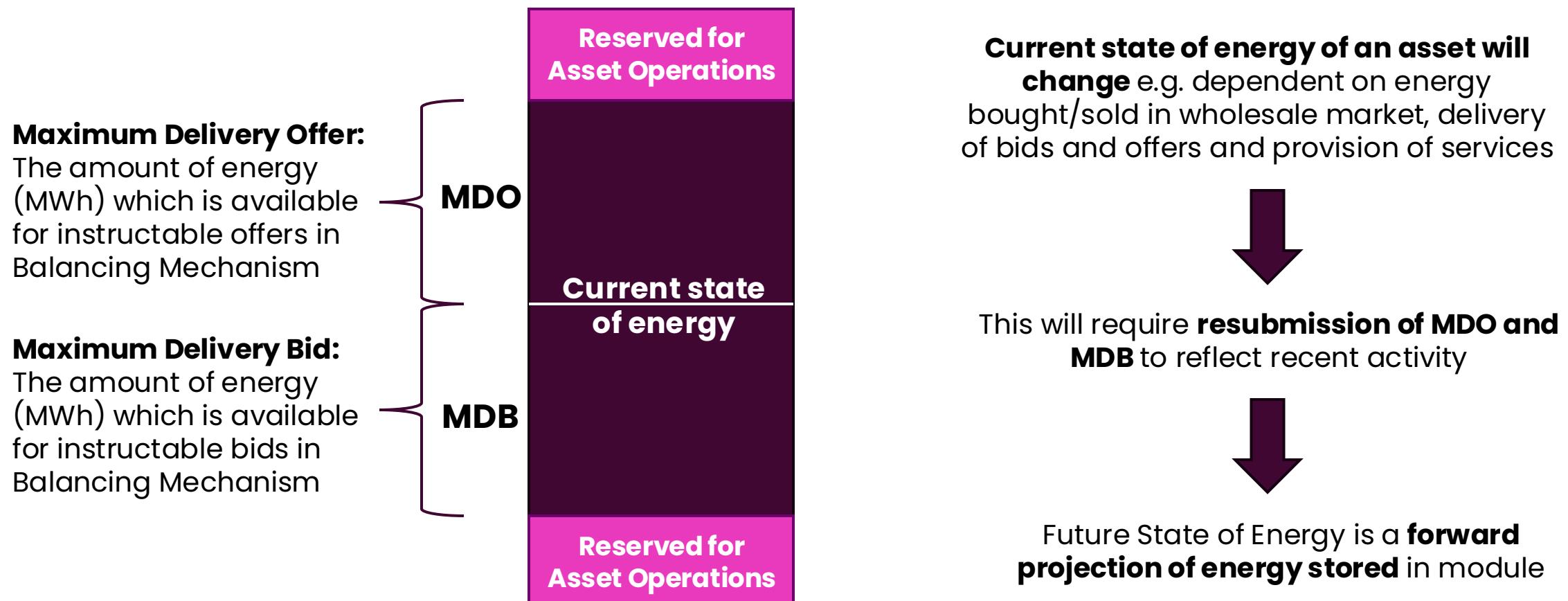
These will provide Control Room means to increase economic dispatch of Electricity Storage Modules and improve operational planning for longer term planning (up to 24 hours ahead)

As well as introducing additional defined terms in the Balancing Code section of the Grid Code, there will also be changes to the Data Validation, Consistency and Defaulting Rules, and a requirement for Energy Storage Modules to provide a planning model which is more asset specific. More information is available [here](#).

Explaining MDO, MDB, FSOE Parameters

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Explanation of how the parameters as part of GC0166 will work:



GC0166 Proof of Concept Testing with Customers

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What are we doing? We are conducting proof of concept (POC) testing to simulate GC0166 in action ahead of production to help us understand how the change will work in practise; insights gained from testing will help inform any necessary system adjustments.

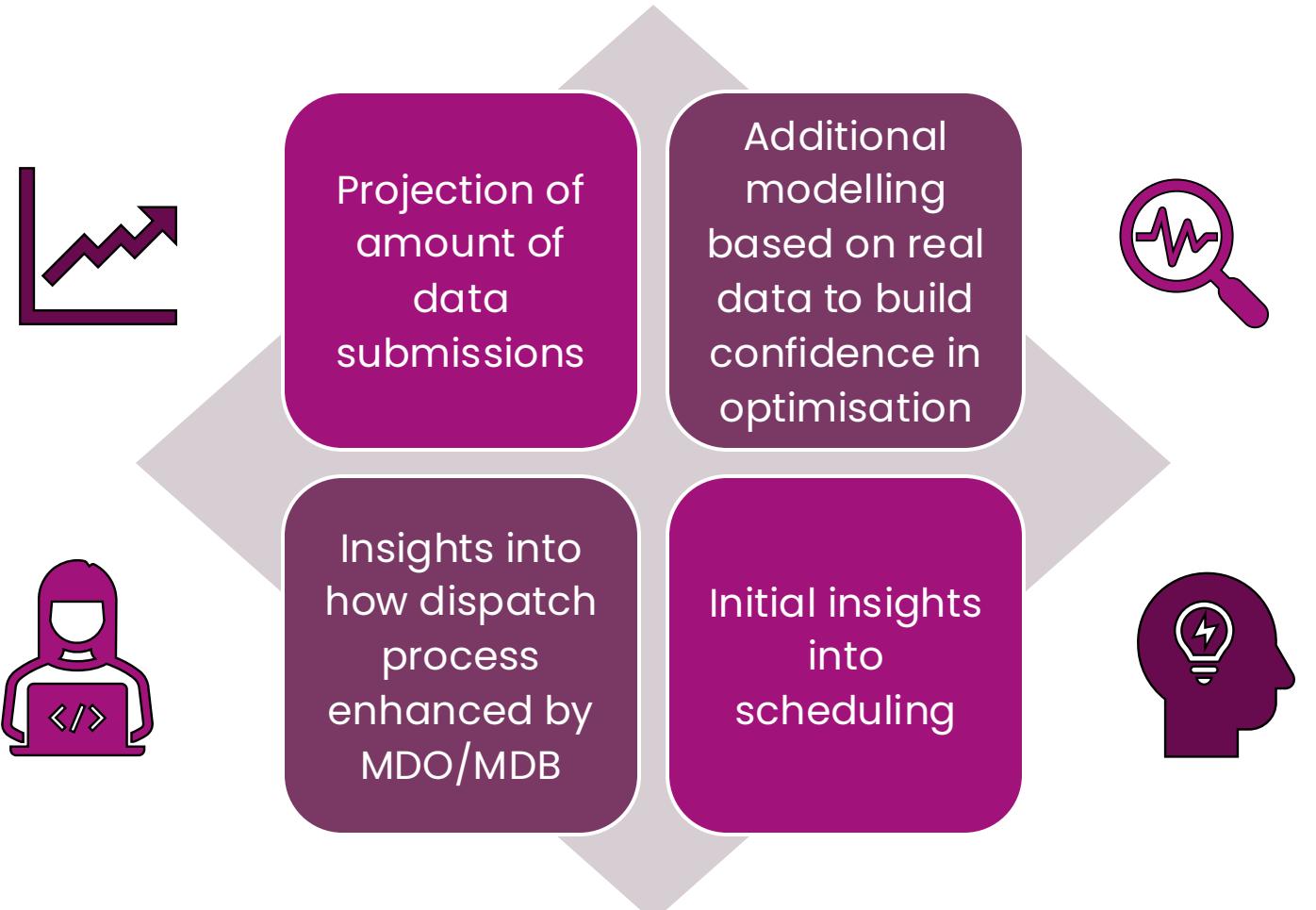
How are we doing this?

- We are testing the full spectrum of likely active BMU participants
- We have engaged with customers to identify & nominate different categories of BMU:
 - Battery (>50MW, 10-50MW, <10MW, single /aggregated, demand)
 - Non battery (pumped storage)
- Customers will collect 'real time' data, for 2 operational days and submit offline to NESO.
 - GC0166 parameters: MDO/MDB MWh / FSOE %
 - Additional parameters: Upper & Lower limit SOE %, Real time SOE %, Export & import efficiency %, Cycle limit – daily or MWh
- We are working with circa. ten customers to set up the POC testing window.

GC0166 Proof of Concept Testing Benefits

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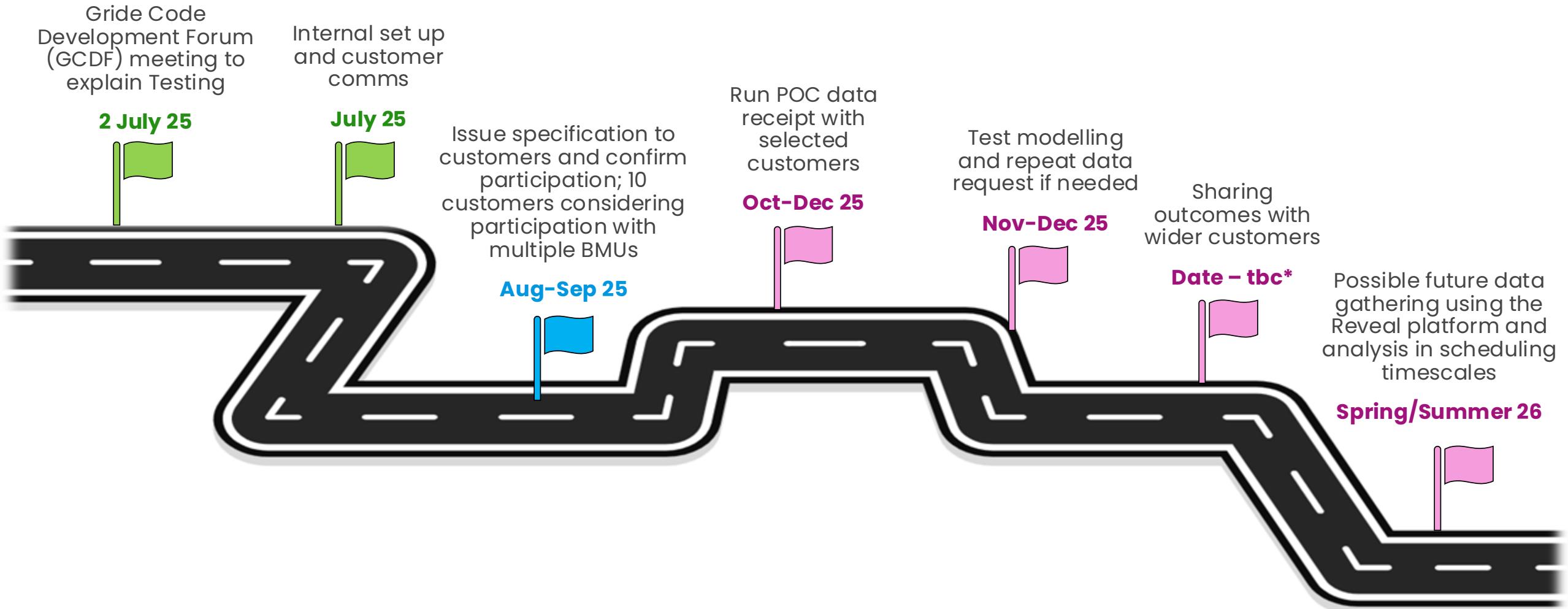
- Mutual benefit for both NESO and customers to “get our eye in” in on how GC0166 works in practise
- Insights from the POC will be shared with our wider customers



Looking Forward:
Potential opportunity in early/mid 2026 to gather more data through the Reveal platform to support further analysis in scheduling timescales.

Proof of Concept Timeline & Next Steps

#BPSepWeb25



* Timescale for sharing of insights based on readiness of participants to deliver Proof of Concept and subsequent length of PoC

Key Takeaways: GC0166 & Proof of Concept Testing

#BPSepWeb25



GC0166 Modification status:

Awaiting Decision

Expected approval from Ofgem of GC0166 and agreement on implementation in October 2025.

Data flows triggered by BSC Change P499 (June 2026)



GC0166 implementation on OBP is dependent on the outcome of the Grid Code Modification process but is expected January – April 2026.

Data streaming from customers within 12 months following formal approval by Ofgem.



In addition to participants who have already shown interest in the PoC there is limited time for remaining customers to get involved.

Please contact us by 30.09.2025 to express your interest – box.balancingprogramme@neso.energy



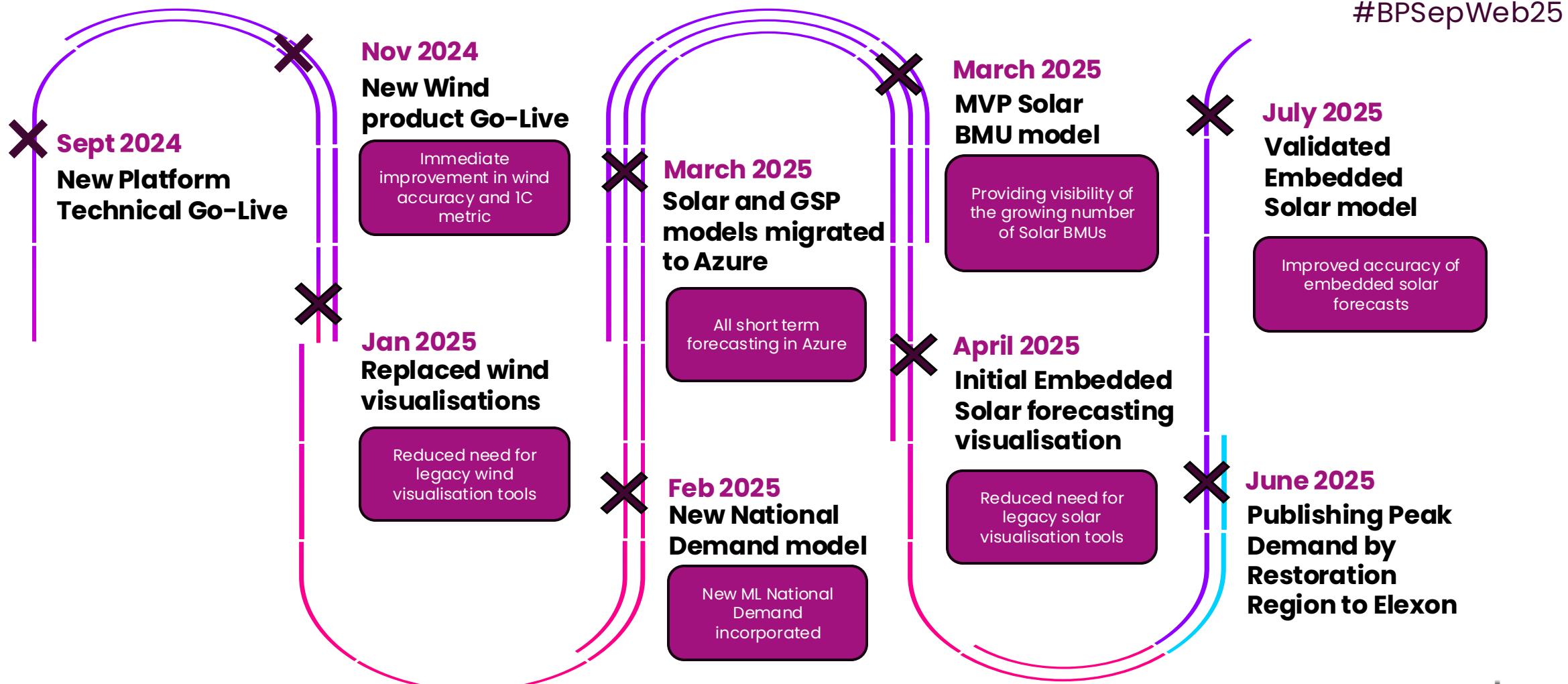
Further details are available in the Grid Code Working Group documents –

[GC0166: Introducing new Balancing Mechanism Parameters for Limited Duration Assets | National Energy System Operator](#)

Forecasting Systems Update

Rich Sykes, Product Manager

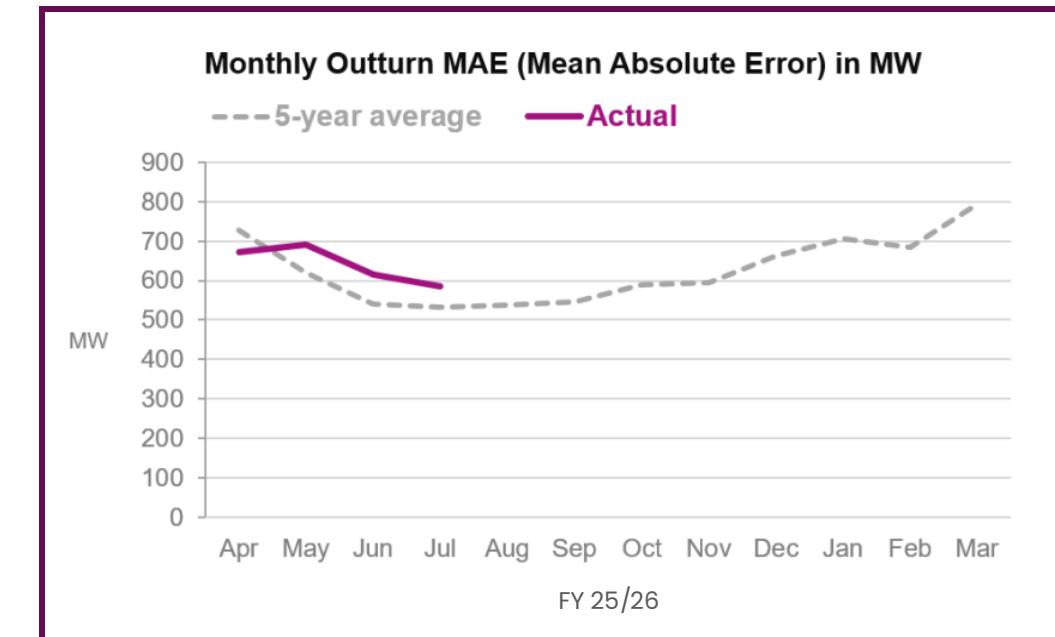
A Recent History of the Platform for Energy Forecasting (PEF)



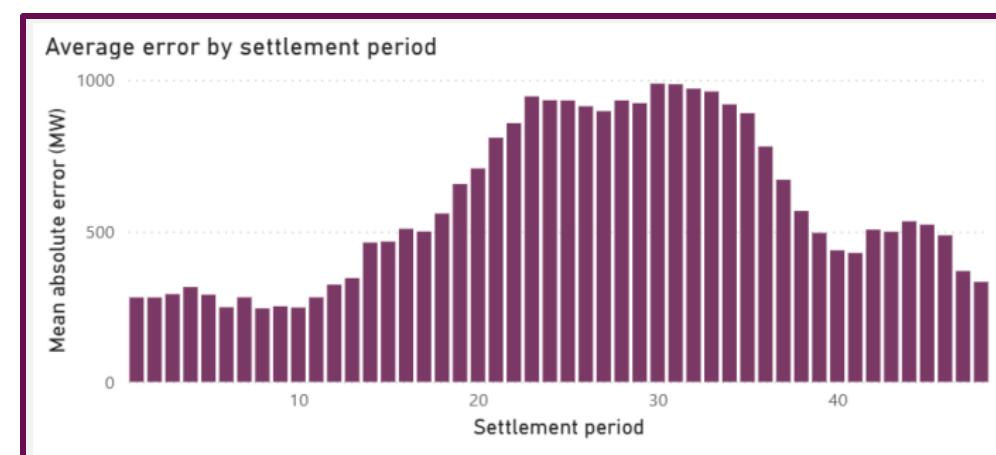
1B metric: Day-Ahead National Demand Forecasting Challenge

1B day-ahead national demand forecasting impacts:

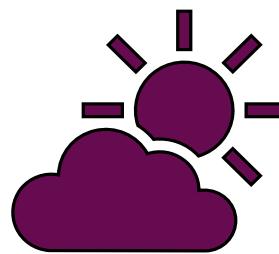
- **Variability of the national demand forecasting challenge**
 - Current demand forecasting tooling
 - Market and consumer behaviours
- **More renewables**
 - Solar inaccuracies, record high of 14GW solar recorded in July



Source: Monthly incentives report July 2025



Source: Monthly incentives report July 2025



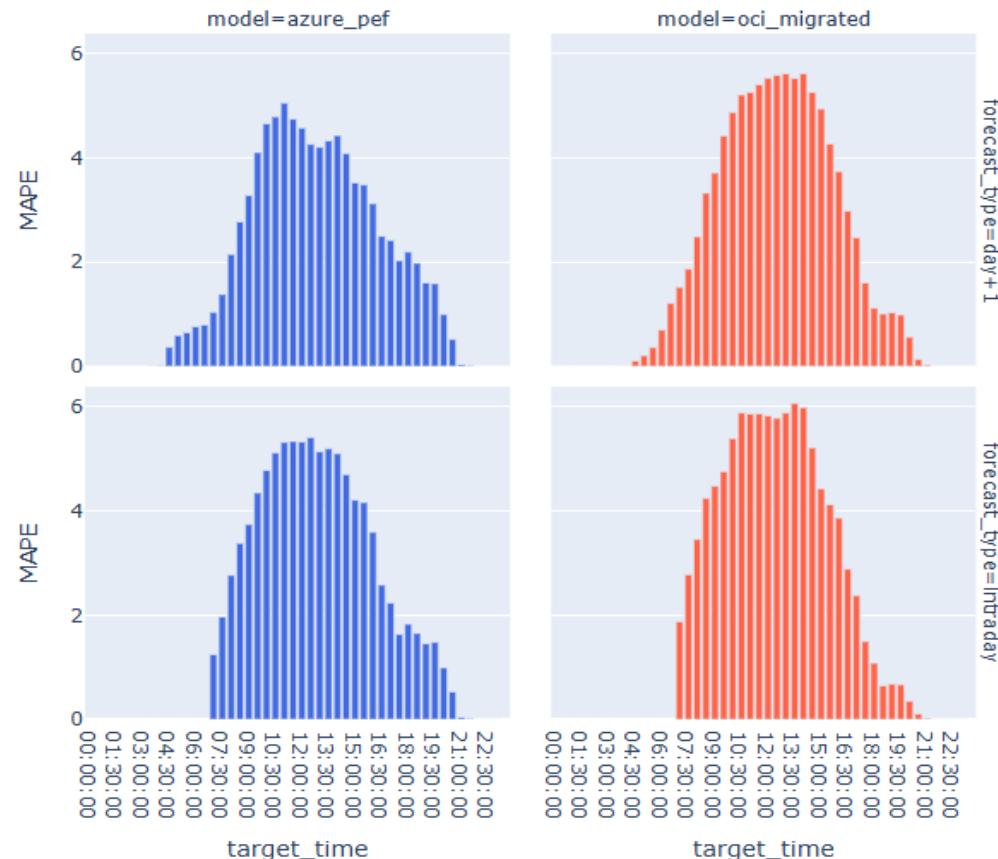
Immediate Activities Addressing 1B Performance

Solar forecasting delivery

- New solar model forecasting BMU and embedded generation
- New model outperforms legacy models (Azure PEF vs OCI migrated)
- Models built for iterative improvements

Demand forecasting decoupled from legacy tools

- Incorporating the new solar model outputs into the demand forecasting tools
- Incorporating embedded wind data directly from PEF



Platform for Energy Forecasting (PEF) Roadmap

Q1 FY 25/26 (Apr 25-Jun 25)

Key Capabilities:

- ✓ Visuals and tools for the control room
- ✓ Solar BMU model and visualisations
- ✓ Regional demand forecasts shared with Elexon as part of Electricity System Restoration Standards (ESRS)
- ✓ Integrate Solar Nowcasting ¹
- ✓ Renewable forecast control room situational awareness
- ✓ Advanced Analytics data integration

Q3 FY 25/26 (Oct 25-Dec 25)

Key Capabilities:

- Initial release of National Demand Forecasting Capability¹

Key Enablers:

- GSP model audit ²
- PEF migrated to NESO Azure tenancy
- Integration with Planning tools for improved studies²

Continuous model improvement

Q2 FY 25/26 (Jul 25-Sep 25)

Key Capabilities:

- ✓ Improved embedded Solar forecasts¹

Key Enablers:

- Offline Prototype National Demand Forecasting Capability¹
- ✓ Renewable generation forecasts decoupled from EFS¹

Q4 FY 25/26 (Jan 26-March 26)

Key Capabilities:

- PEF produces long term forecasts (demand)²
- Improved Reactive Power Forecasting Capability
- Enduring National Demand Forecasting Capability
- New post event analytics forecasting tools
- Incorporating additional datasets including market and consumer data

• ¹B improvements

• ²Work enabling EFS retirement,

• Complete

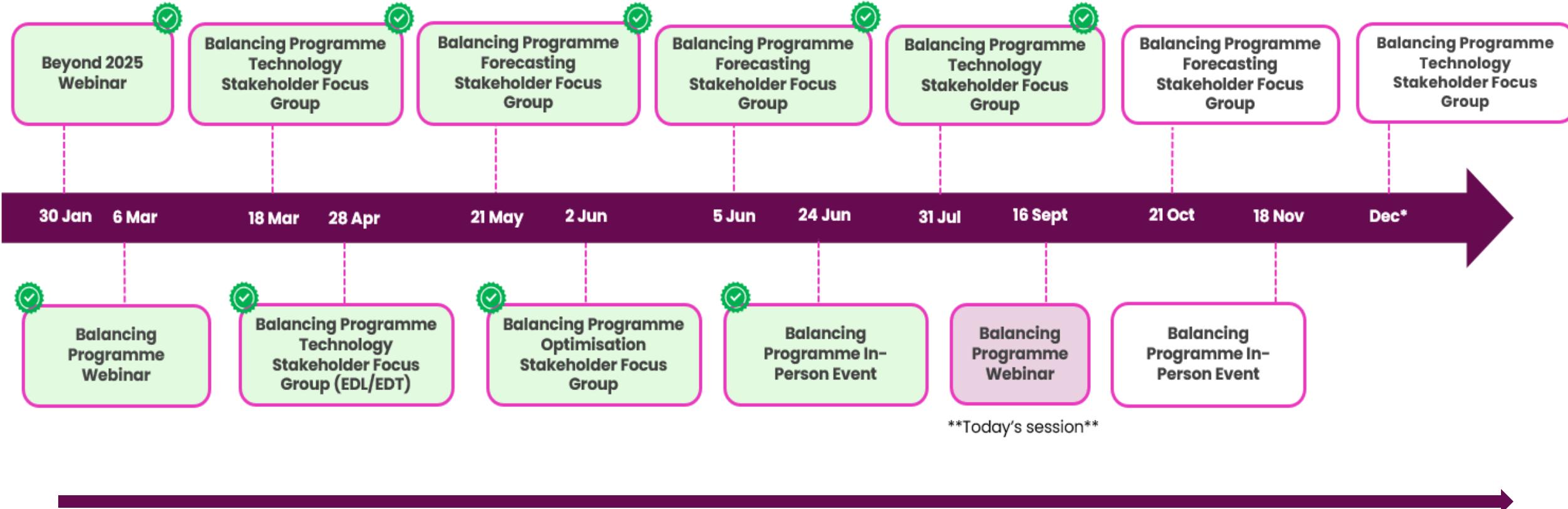


Q&A

Please post any questions you have for our speakers in **SLIDO** using **#BPSepWeb25** ensuring to list both your **full name and organisation**

Type the above code into the Slido app or via Slido.com, or scan the QR code

2025 External Engagement Timeline



Balancing Programme **relationship management meetings** throughout 2025 & **external NESO newsletter – 'Energising Progress'** – with Balancing Programme content issued regularly, providing updates between online & in-person events.

Balancing Programme November 2025 Event

Date: 18.11.2025

Time: 9:30 – 16:00

Location: Clermont Hotel, Charing Cross, London.

We will share the latest on our Balancing and Forecasting capabilities planned for delivery into the Control Room and provide an update on progress to shape our capabilities beyond 2025 using Industry input.

A more detailed agenda will be shared closer to the webinar

To sign up to the event, click [**here**](#) or scan the QR code below



Keeping in Contact



Slides from today's session will be published on our website.



Subscribe to our new NESO newsletter [here](#) – please select **Future of Balancing Services inc. Balancing Programme** to keep up to date.



We welcome your feedback & questions – please get in contact with us at box.balancingprogramme@neso.energy.



Sign-up to our Stakeholder Focus Groups for Optimisation, Technology, & Forecasting – [**Balancing Programme Stakeholder Focus Groups**](#).



If you are interested in a regular meeting with a representative from the Balancing Programme and would like more information, please get in contact using the email address above.



Public

Balancing Programme Webinar

September 2025