

#BPJune2024

Welcome



Q&A Session via Slido



Please post any questions you have for our speakers on Slido - #BPJune2024 - ensuring to list both your full name and organisation; this will enable us to follow up with you after the event.



All questions posted in Slido will be published online with answers after the event; this will include any questions we are unable to answer in the session due to time constraints or the need for further information.



Out of scope questions will be forwarded on to the appropriate ESO 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.



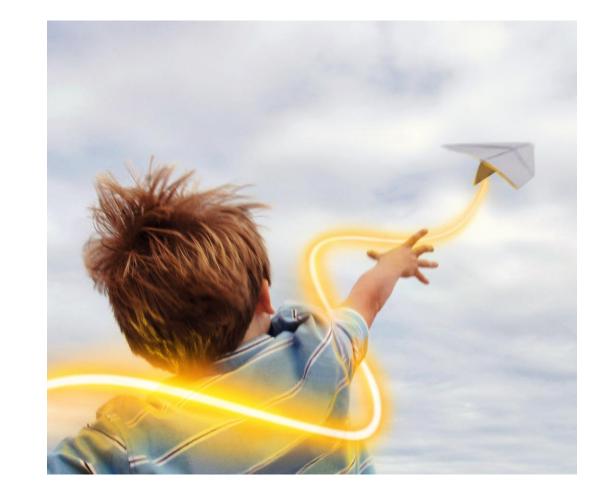
Slido will close at the end of the event; if you have any further questions, please do not hesitate to get in contact with us at box.balancingprogramme@nationalgrideso.com

Enhancing Energy Storage in the BM

Sign up to our webinar on the **24 July** where we will give an update on our work on Enhancing Energy Storage in the BM and we will share the outputs of the work LCPDelta have been doing to help us improve dispatch transparency in our operations

This webinar is aimed at all energy providers interested in skip rates and will cover

- Introduction to the skip rate challenge the ESO and industry are facing
- Stakeholder feedback gathered by LCPDelta
- Methodology to calculate skip rates (redefined as uneconomic dispatch)
- Results from the independent analysis report undertaken by LCPDelta
- Recommendations and conclusions of the analysis
- Next steps
- Q&A





https://events.teams.microsoft.com/event/397bd340-f388-4a62-a853-ae7911d7e989@f98a6a53-25f3-4212-901c-c7787fcd3495

REVEAL Innovation Project – Get Involved

REVEAL is a innovation project which will improve our ability to carry out trials. The project is currently in Phase 4 and is building a live trials environment (sandbox).

- Pathway to more efficient and effective trials
- Building a more collaborative and transparency approach with the industry

We are currently looking for a testing partner

Specifically, the partner will support test integration with the proof of concept:

- Receive data submissions/declarations
- Send dummy instructions (example instruction, not to be executed)



Please speak to either Leon Walker or Philippa Banks for more detail. They will be available throughout the day and located at our carousel.

Welcome & Agenda

Time	Title	
09:30 – 09:45	Welcome & Setting the Scene	Delivering for you and societyDeveloping our future plansPartnerships
09:45 – 10.05	Current Systems Progress Update & Future View	ASDP & BM Roadmap overviewPEF Strategy and Roadmap
10.05 – 11.00	Open Balancing Platform (OBP) Progress Update & Future View	OBP Roadmap overviewEDL/EDT Migration
11.00 – 11.25	Break	
11.25 – 12.10	Breakout Session 1,2 or 3	 OBP Optimisation & Fast Dispatch Demo New Projects & Innovation Beyond 2025
12.15 – 13:00	Breakout Session 1,2 or 3	
13:00 – 13.45	Lunch	
13.45 – 14.30	Breakout Session 1,2 or 3	
14.35– 15.35	Customer Listening Session	Improving our collaboration with you
15.35 – 15.50	Break	
15.50 – 16.20	Q&A	
16.20 – 16.30	Next Steps & Closing Remarks	



Delivering for you and Society

1. Manage increased number of market participants

2. Quickly adapt to new requirements, innovation and services

3. Enable level playing field for new flexibility services

4. Optimise balancing cost

Several key areas of current focus out to 2025 for the Balancing Programme



Successful delivery of several releases of the Open Balancing Platform inc. Bulk Dispatch & Fast Dispatch, & enablement of Balancing Reserve and the 30-minute rule



Summer 2024 - Deploy several improvements to the small BMU zone to resolve outstanding rounding issues



Improved EDL/EDT processing through industry collaboration and upgrade of current BM systems with additional memory and **CPU** resources

Summer/Autumn 2024 - Build

out cross programme

integration - e.g., SCADA,

Single Markets Platform and Data

& Analytics Platform.



Successful delivery of a 2nd release of the MW Dispatch Service on the Ancillary Service Dispatch Platform, supporting improved constraint management in the UKPN area

Autumn 2024 - MW

Dispatch and ASR service

enhancements delivered in

ASDP unlocking further

consumer value



Removal of Electricity Balancing System from all operational processes in the Control Room, & currently in the process of removing hardware



Winter 2024 - Deliver the capability to dispatch all units manually from the Open Balancing Platform



Successful strategic review of **ESO** forecasting estate resulting in decision to decouple forecasting products from legacy forecasting tools earlier than originally planned

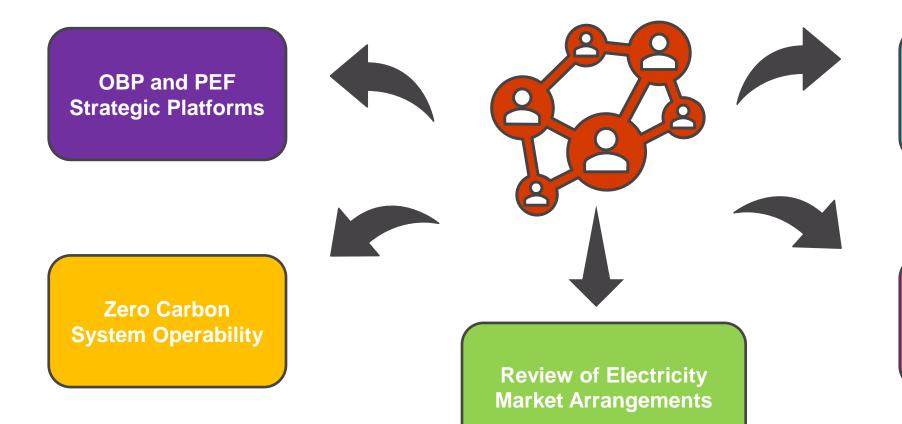


Winter 2024 - deliver a 2nd **Data Centre** providing enhanced resilience to the Open Balancing Platform



Developing our Future Plans

Collaborating with you on what 'beyond 2025' looks like will be a key focus of today's event



Data

Whole Energy System Management

Partnerships



Over 450 stakeholders engaged with the Balancing Programme representing over 170 organisations & growing!



<u>7</u> Balancing Programme stakeholder newsletters, providing programme updates between events; <u>6</u> separate news updates e.g., OBP performance, 30-minute rule etc.



4_in-person Balancing
 Programme Engagement Events
 & 2 webinars – most recent
 November event received an average feedback score of 8.3/10



10 external stakeholder focus groups hosted for topic specific discussions re: balancing technology, optimisation, storage, & forecasting

We recognise there is still more to do . . .

Energy Transition is a shared objective

Tremendous opportunities but complex challenges

New approach to collaboration

Delivering for you and society



Drive the transformation to a fully decarbonised electricity system by 2035 which is reliable, affordable and fair for all

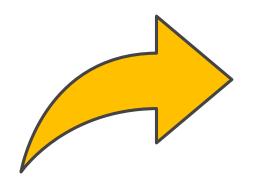


Today's Areas of Focus



Delivery

Outline our planned product delivery, and the impact / benefit of these system changes for you



Future Plans

Identifying the emerging themes beyond 2025 to deliver a net-zero system by 2035



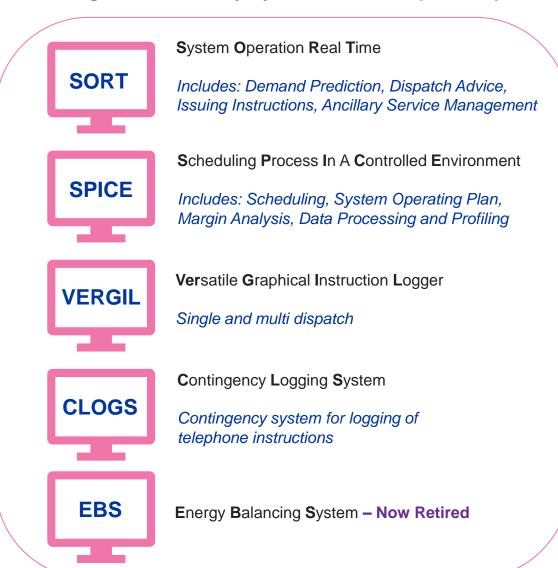
Partnerships

Understanding what future engagement and effective partnering looks like for you



Balancing Programme – Current Systems

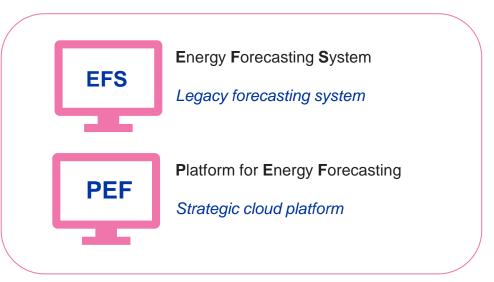
Balancing Mechanism Key Systems – To be replaced by OBP



Non-BM - Enduring services to be migrated by OBP



Forecasting – PEF Replacing EFS

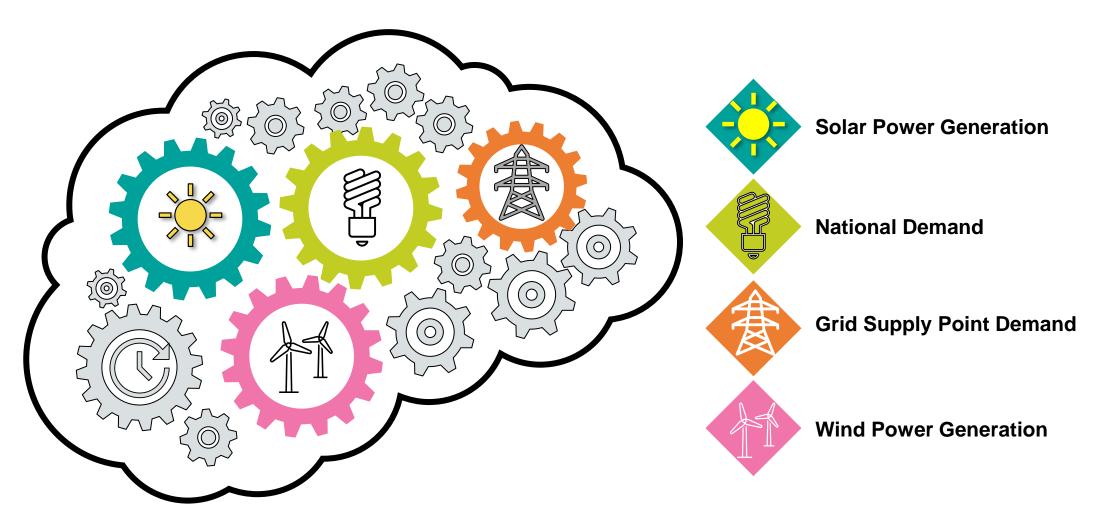


Current Balancing Systems – FY25 Q1/Q2/Q3 Releases

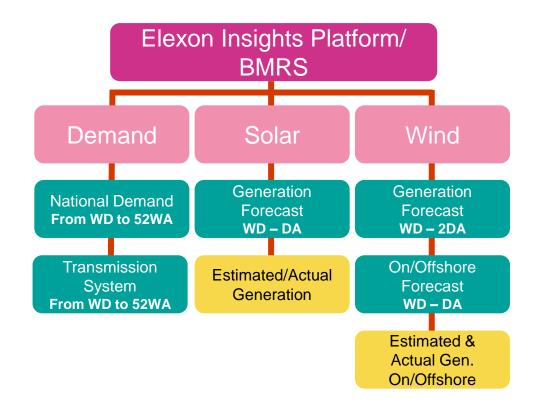
Functional Area	Overview of Capability	Details	Impact and Benefit	
OBP Integration (BM)	Additional Data Feeds	Data Including: Constraint (Q2), All Zonal Data (Q2), Pumped Storage (Q3), Ancillary Service (Q3)	Enables constraint management, dispatch all zones & all instructions through OBP	
Dynamic Response (BM & NBM)	Arming and Disarming Improvements	Select by GSP Group, Constraint and individual BMU (Q1/Q2), 24/7 Instructions (Q3)	Service efficiencies through targeted actions and improved flexibility	
Asset Health (BM & NBM)	Performance enhancements and essential maintenance	Includes: Code optimisation to reduce profiling load and server upgrades (Q1/Q2/Q3)	Maintaining system reliability ahead of retirement.	
MW Dispatch (NBM)	Enhancements to service	Includes: Dynamic Constraint Assignment (Q1), Situational Awareness (Q1/Q3), <1MW Units (Q3)	Enables wider participation and use of service, leading to reduced constraint costs & earlier connection	
Pathfinders (BM)	Stability and Voltage Pathfinder enhancements	Instruction of SCL/inertia independently & static/dynamic voltage independently. (Q2)	Optimises use of services by unbundling actions	
NCMS – Look Ahead (BM)	Data feeds for Network Control Management System	Data: Projected BMU and Interconnector outputs (Q3)	Enables 0-24h look ahead analysis, supporting secure operation and reduced control room workload	

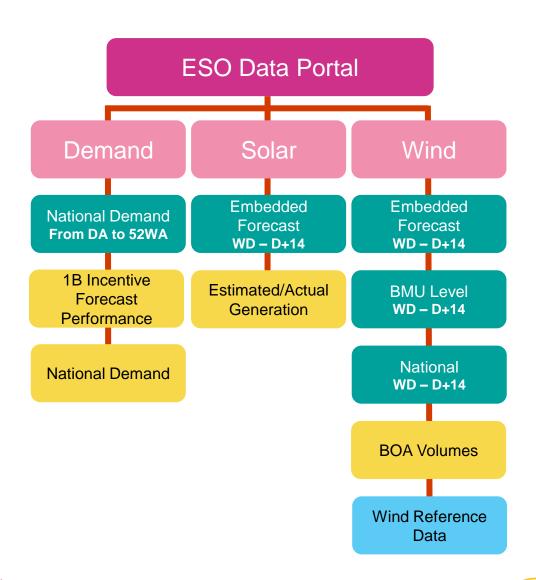
Forecasting Update

Forecasting Products (Forecasts, Data, Processes and Tools)



Forecasting: What We Publish



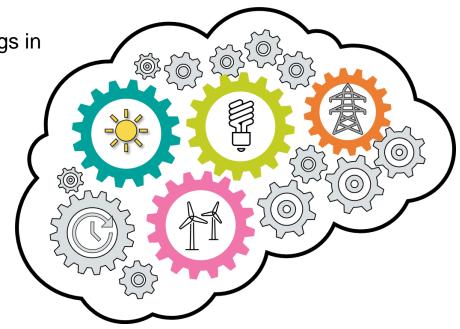


Platform for Energy Forecasting (PEF)

Progress in BP2 (since April 2023)

- Improved National Demand Forecasts against benchmark leading to savings in Balancing costs of

- ~£100m in FY24
- ~£107m in FY25 (estimated)
- Delivery of the Azure Cloud foundational platform
- Integration of GSP Solar & Wind forecasts into our Balancing systems



What's next:

Development of new Wind Power forecasting models on Azure (Q2 FY25) Migration of Solar, National Demand and GSP forecasts to Azure (Q3-Q4 FY25)

Retirement of our legacy forecasting systems (Q4 FY26)







Publication of all Operational-metered Wind forecasts (Q2 FY25)

Wind Power Generation – PEF Release 5

R5 will deliver the first forecasting model onto the Azure Platform enabling:

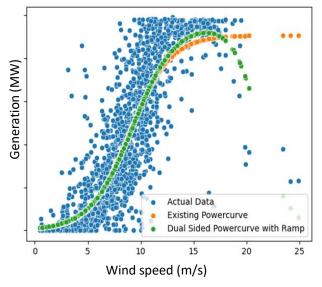
- 24 forecast updates a day (up from 8)
- Quicker development and deployment through automation
- Incorporating richer datasets
- Energy Forecasting Engine: Rapid adaptation & new ML methods

Blended ensemble approach to forecasting:

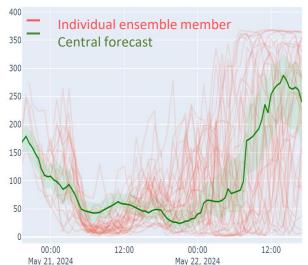
- Utilising multiple equally likely forecasts
- Enhancing prediction accuracy
- Independent wind model application

Benefits:

- Feeds many use cases such as dispatch, reserve and response decisions
- Enables future integration wind, solar and demand forecasts



An adapted version of the existing wind model with high wind speed shutdown included (green) and excluded (orange), alongside the observations (blue).



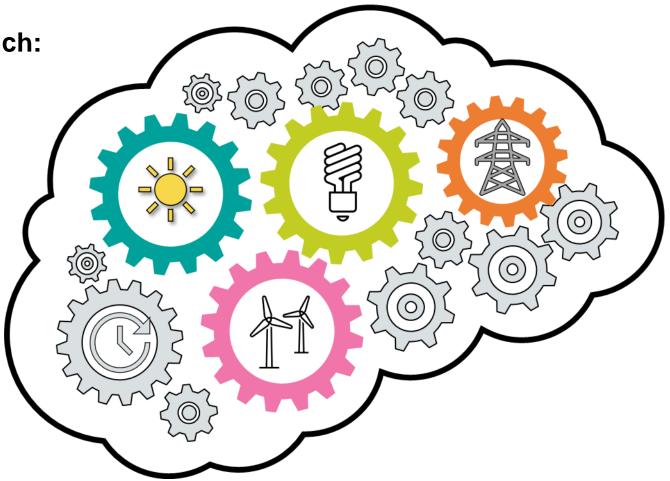
A prototype wind power forecast using ensembles, for a single wind BMU. Each individual ensemble member corresponds to a single Met Office weather forecast scenario.

Get Involved

Forecasting Stakeholder Group Relaunch:

Register here

Beyond 2025 Break-out Session





OBP Delivery Since Last Industry Event

Release 1.0.6 - 26 March 2024

- Improved High Price identification
- 13 tickets released to production
- · OBP's first Hands On release

Release 1.1.1 - 14 May 2024

- Foundational changes to integrate with legacy BM system to support Wind, Interconnector, Constraints and National Demand data
- Performance enhancements for Fast Dispatch & Target Mode
- Multiple other fixes and enhanced logging for de-bugging
- 45+ tickets released into production

Release 1.1.3 - 18 June 2024

- Mark invalid draft/pending instructions due to changed status (e.g. redeclaration to a lower MEL, inactive EDL etc.)
- Improved handling of linked instructions to allow for dynamic parameters if cancelled
- Enablement of all zones in OBP in readiness for future roadmap
- Security and non-functional enhancements on microservices
- 120+ tickets released into production













Release 1.0.5 – 13 March 2024

- Balancing Reserve Go Live (in OBP)
- High Price Fix discovered in test not seen in production
- Battery Volume (MDVE/I) calculation based on 30 Minute MEL rule
- Automatic restriction for inter-trips
- · Visual enhancements to unit library
- Improved optimisation when ramping
- · 135+ tickets released into production

Release 1.1.0 - 30 April 2024

- Fast Dispatch
- Battery handling improvements (Restriction timeout, removal to accommodate industry practice)
- Ability to edit Restrictions
- Enhancements to Unit Library & Requirement Editor UI
- 110+ tickets to be released into production

Release 1.1.2 - 05 Jun 2024

- Improved price curve handling (Non-convex price curves, "backward" price curve to reduce high price instructions due to PN Step Changes)
- Improved Linked instruction visualization in Unit Library
- Improvedd display for MEL/MIL step changes
- 65+ tickets released into production

Abbreviations

MDVE/I: Max Delivery Volume Export/Import BOD: Bid Offer Data MEL/MIL: Max Export/Import Level PN: Physical Notification EMX/I: Expected Max Export/Import EDL: Electronic Dispatch Logging (ESO/Provider Integration for instructions and redeclarations)

Summer 2024

Capabilities:

 BM Quick Reserve (note added to OBP service catalogue but goes live later)

Enablers

- 1. Interface from Single Market Platform
- Interface from SCADA for metering [+1]

Winter 2024

Capabilities:

- 1. New storage parameters
- 2. Bulk Dispatch Wind BMUs (rule based)
- 3. Constraint Management
- 4. Pumped Storage BOAs

Enablers

- 1. OBP becomes Operationally Critical
- 2. Interface to Ancillary Settlement for NBM

<u>Legend</u>

- Moved to an earlier date (no. of seasons moved)
- Moved to a later date (no. of seasons moved)

Summer 2025

Capabilities:

- 1. NBM Quick Reserve
- 2. BM Slow Reserve
- 3. NBM Slow Reserve

Winter 2025

Capabilities:

- 1. Constraints Pathfinder
- 2. Stability Pathfinder
- 3. Manage Sync/De-sync

Enablers

1. PEF Integration















Autumn 2024

8

Capabilities:

1. Manual instructions

Enablers

Interface to Data Analytics
 Platform

Spring 2025

Capabilities:

1. NBM Instruction Types

Enablers

- 1. NBM APIs
- 2. EDT/EDL mastered from OBP

Autumn 2025

Capabilities:

- 1. Move MW Dispatch
- 2. Move Response (DC/DM/DR)

Enablers

1. Ready to decommission ASDP

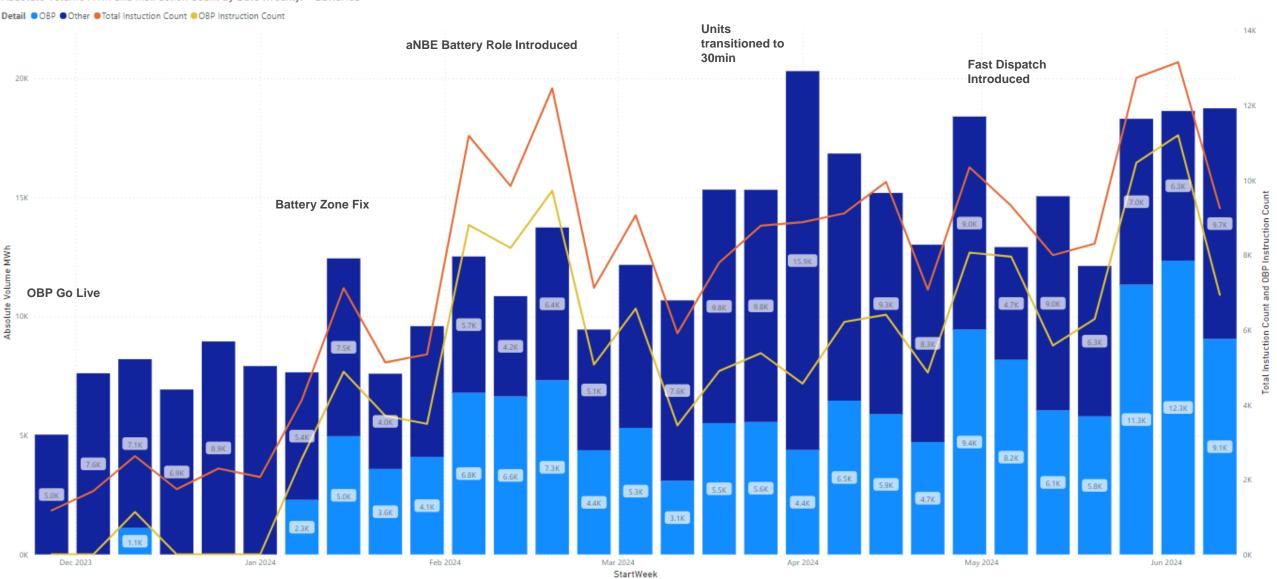
Abbreviations

EDT: Electronic Data Transfer DC: Dynamic Containment DM: Dynamic Moderation DR: Dynamic Regulation ASDP: Ancillary Services Dispatch Platform BOA: Bid Offer Acceptance

PEF: Platform for Energy Forecasting

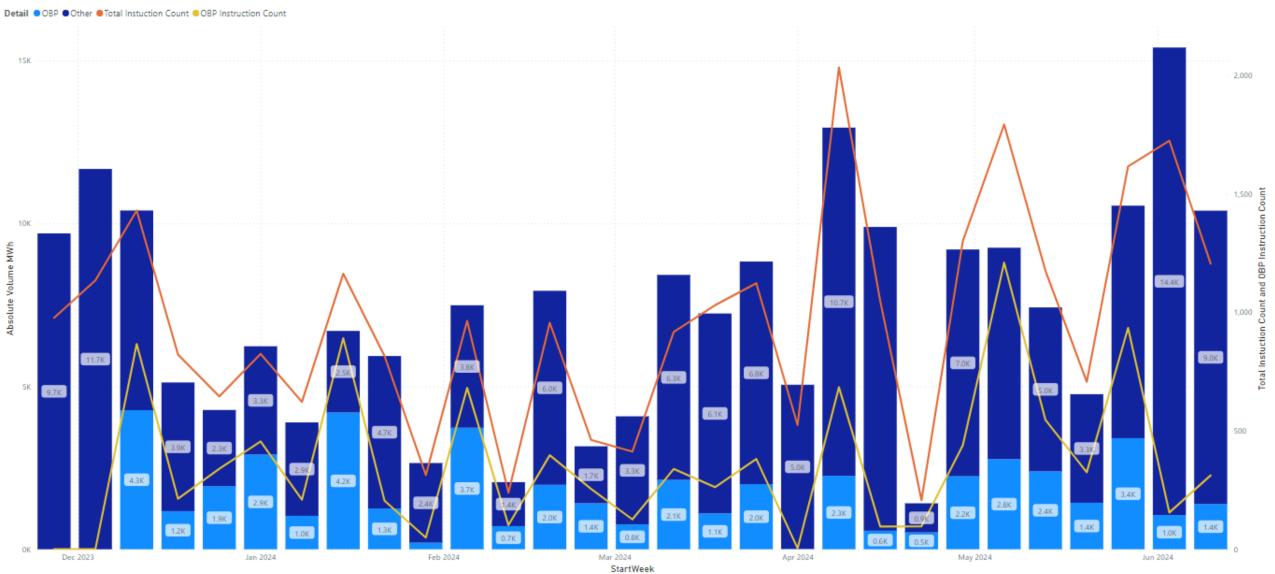
Batteries

Absolute Volume MWh and Instruction Count by Date (Weekly) - Batteries



Small BMUs

Absolute Volume MWh and Instruction Count by Date (Weekly) - Small BMUs



EDT/EDL - Concepts

- **EDT** (Electronic Data Transfer)
 - Declarations ahead of gate closure
 - Trading Agents send Files to BM File System
 - Files can contain declarations for multiple BMU; each BMU validated individually
- EDL (Electronic Dispatch Logging)
 - Redeclarations from Control point agents during gate
 - BOA and BM AS Instructions and Status
 - Some Pumped Storage Telemetry
 - BM connects to Control Point (real-time data exchange)
- WA API (Wider Access API) is a modern interface using APIs; CDSA (a middleware platform in CNI DC) transforms and presents as EDT / EDL to BM

BM Private Circuit 3rd party trading system

ISDN2(e)

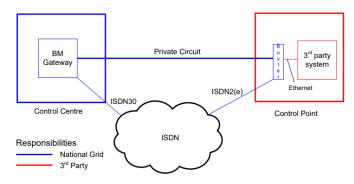
Control Centre

Responsibilities

National Grid

High Level EDT Connectivity- Scotland and Offshore

High Level EDL Connectivity- Scotland and Offshore



EDT/EDL – Transition Overview

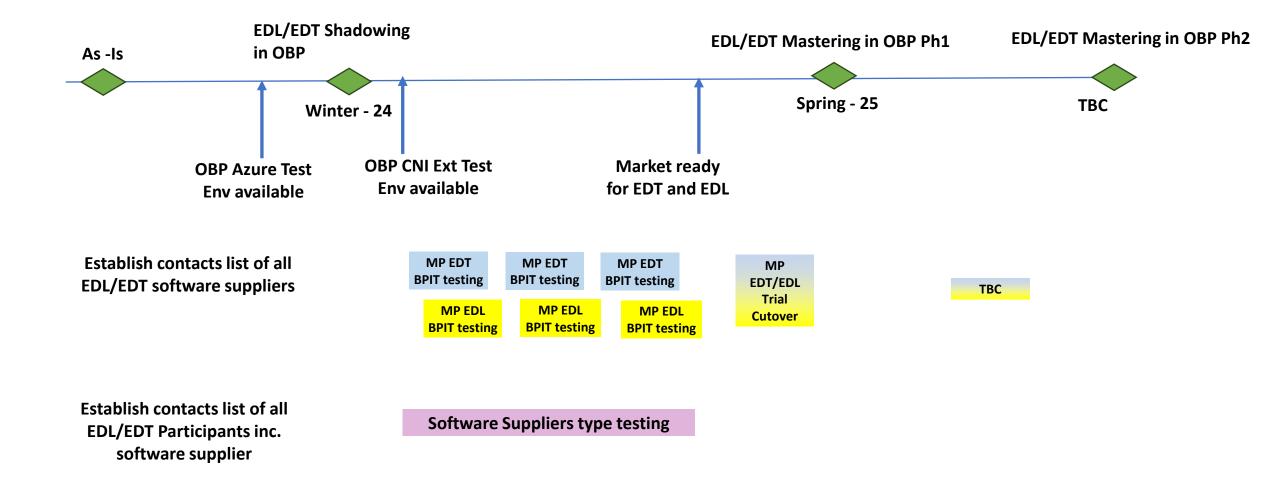
- Shadowing a de-risking test phase whereby OBP EDT / EDL interfaces can be tested with live inbound data presented by BM
- Cut-over Dry Run a series of de-risking activities whereby the ability of Market Participants to exchange EDT / EDL with OBP is proven ahead of cut-over
- Cut-over Phase 1 the point at which OBP becomes the master system processing EDT / EDL, using existing network into the legacy data centre
- Cut-over Phase 2 the network transition of EDT / EDL connections into the strategic data centres
- Onboarding the proving of new Trading Agents and Control Points which includes using a dedicated Market Participant Testing environment

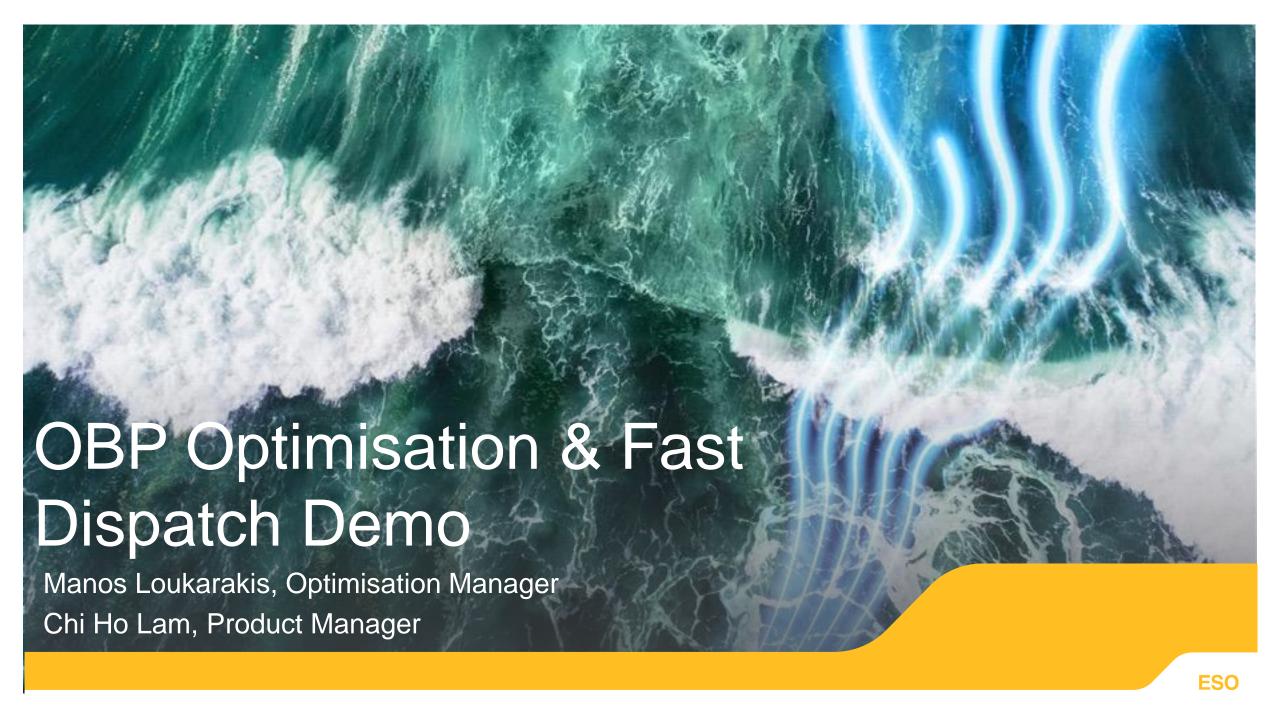
Roadmap

	As -Is	EDL/EDT Shadowing in OBP		EDL/EDT Mastering in OBP Ph1		EDL/EDT Mastering in OBP Ph2	
		Q4-24		Spring-25		ТВС	
	EDT EDL	EDT	EDL	EDT	EDL	EDT	EDL
Primary System	ВМ	ВМ	BM	OBP	OBP	ОВР	OBP
OBP receiving data via	JMS Messages from BM	JMS Messages from BM Files from BM via RCP (only for Shadowing)	JMS Messages to/from BM Socket connection to BM for Submission only	Files from TA	OBP to connect to Control Points	Files from TA	OBP to connect to Control Points
TA/CP Connecting to/from	ВМ	BM		ОВР		ОВР	
TA/CP WAN connectivity	War/Wok	War/Wok		War/Wok		SDC/WDC	
WAAPI sending/ receiving data to/from	ВМ	BM		ОВР		ОВР	
Transition	N/A	N/A		BM Outage to transfer all TAs and CP from BM to OBP		Staged cutover of individual TAs and CPs	

Change in state shown by going from black to amber

Market Involvement





Optimisation so far

Optimisation Group Timeline & Feedback

June 2023 (online)

- Initial kick-off / group scope
 - Bulk dispatch introduction

February 2024 (online)

- BDO details (costs)
 - Fast Dispatch

November 2023

(Balancing Programme engagement event, London – Optimisation session)

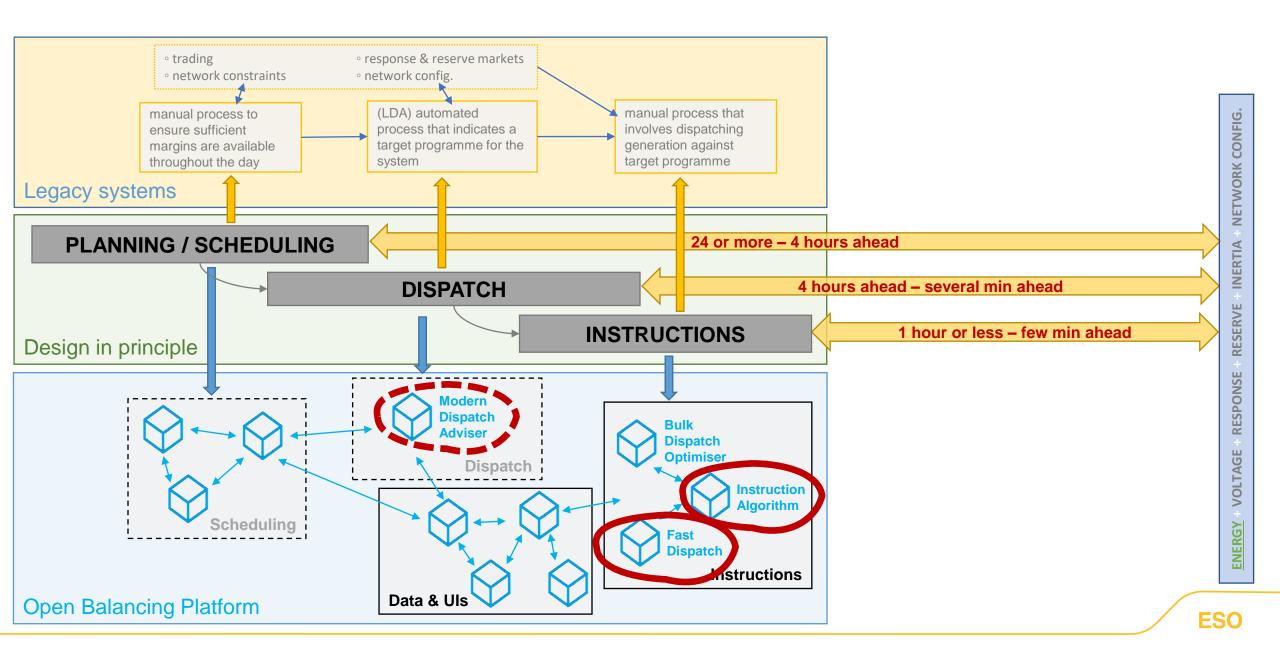
- Control processes structure
- Bulk dispatch optimiser details

June 2024

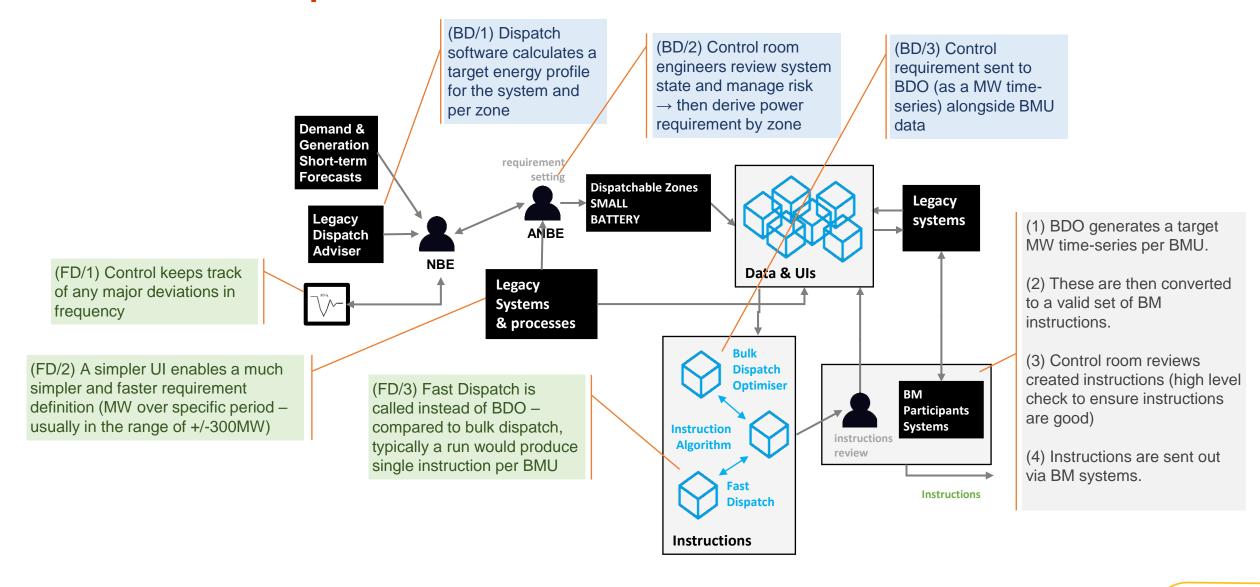
(Balancing Programme engagement event, Optimisation session)

- Fast Dispatch demo
- Instruction algorithm
- Constraints management
- Risk management in control
- Details on dispatch (LDA/MDA)
- More details on documentation
- More on future challengers/problems
- Comparison with other SOs

Context



Bulk and Fast Dispatch Workflows



Key Points on Fast Dispatch

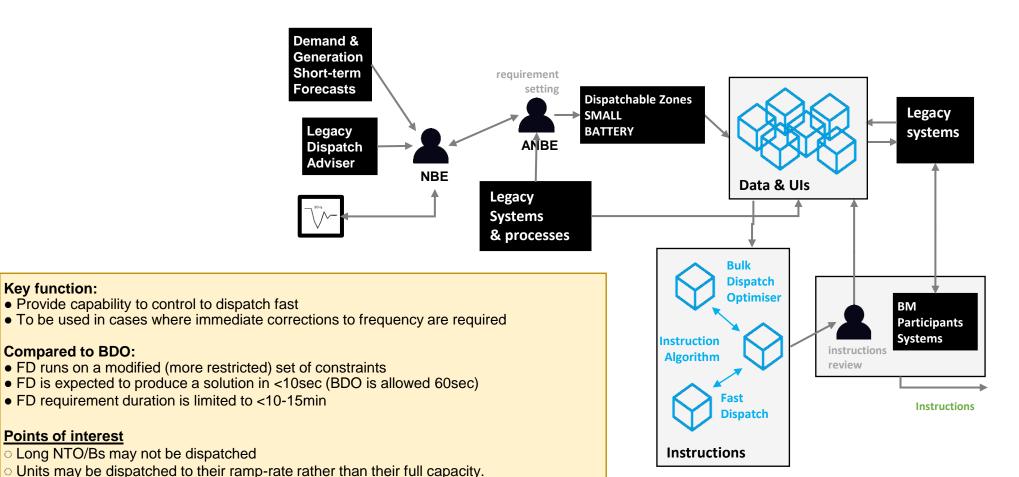
Long MZT/MNZTs might not be dispatched unless units already on, or their sync/desync

Key function:

Compared to BDO:

Points of interest

can be delayed or be brought forward.

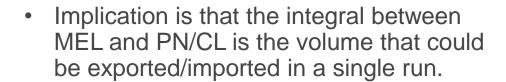




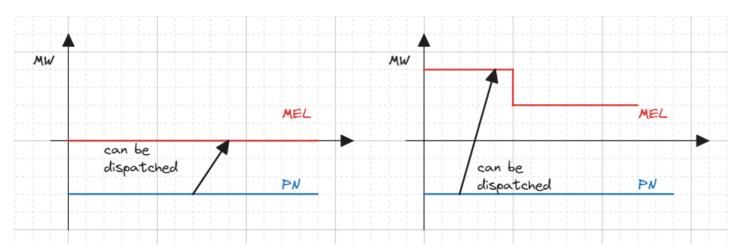
Updates & Changes

Duration-Limited Assets in Bulk Dispatch

- MDO/B constraints are no longer applied
- Energy volumes dispatched are instead limited by restricting optimisation horizon to 30minutes
- BMU can be dispatched to MEL/MIL for the whole duration



 MDO/B constraints will be restored once GC0166 comes into effect and relevant data become available through the BM.



Ongoing Work on SMALL Zone

Key issue

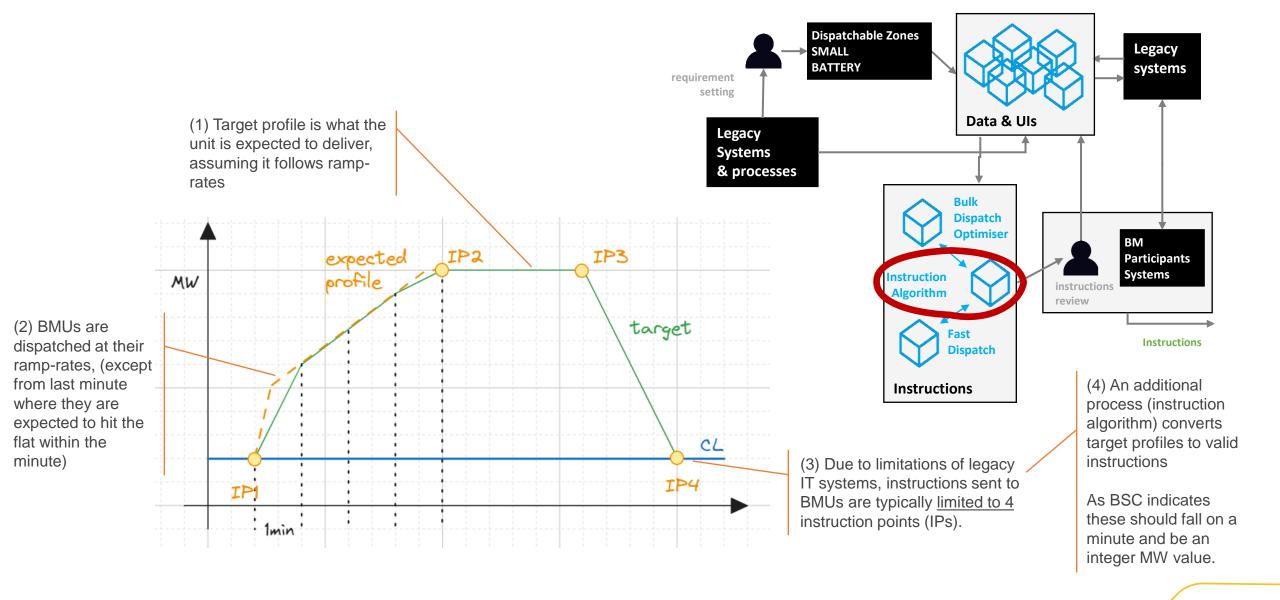
... creation of instructions given current BMU PN declarations and dynamic parameters

Steps towards resolution

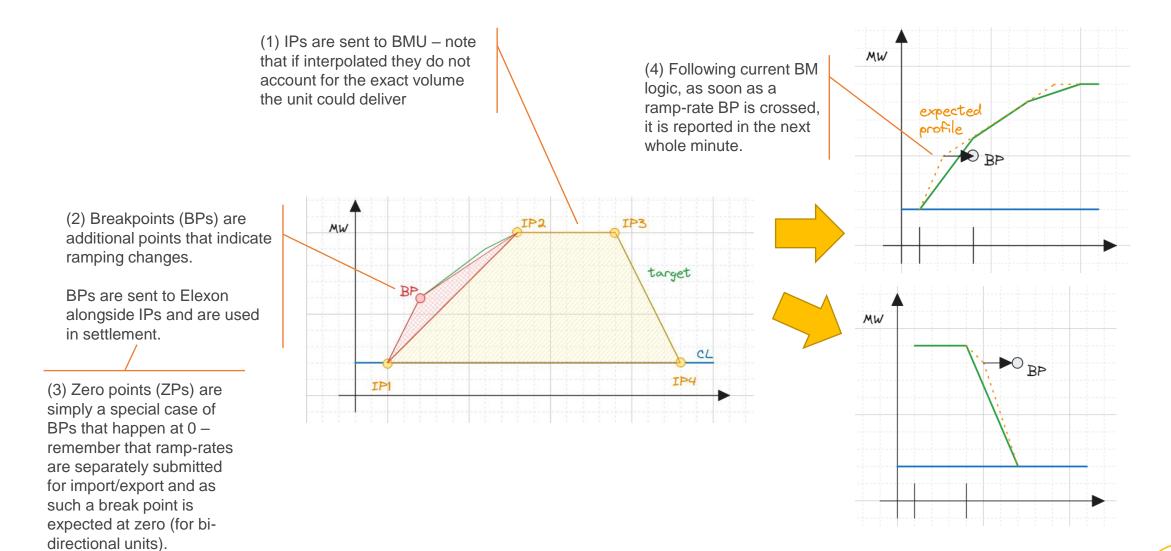
- Instruction creation process improvements & further algorithm logic revisions
- Additional automation & checks before sending instructions
- Application of pre-optimisation price caps
- Moving towards reduced MFTT
- BDO performance improvements

Instruction Creation Process

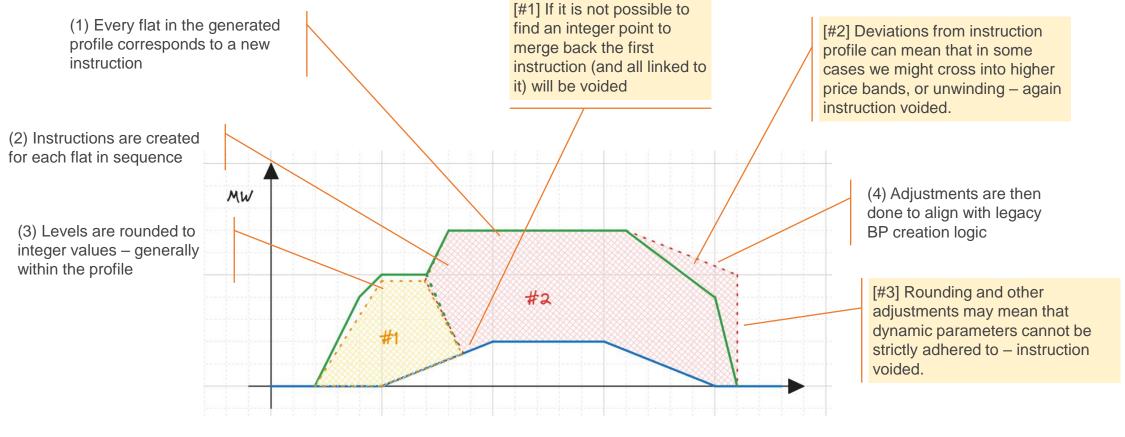
Instruction Creation in OBP



Current BM Instruction Creation Logic for IPs/BPs/ZPs



Current OBP Instruction Creation Logic



Voided instructions are more common for small BMUs which can lead to reduced utilisation of the zone.



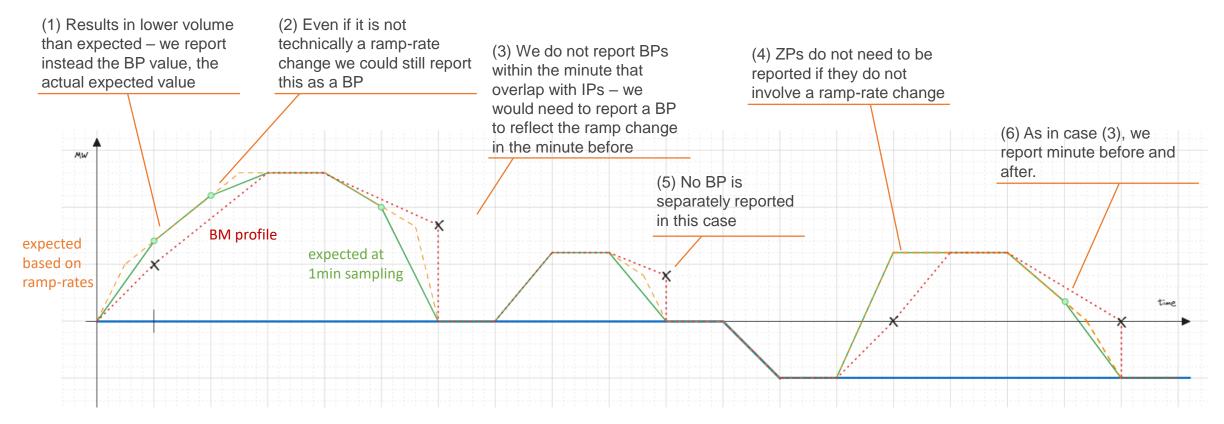
While existing BM logic has worked well in the past for large BMUs and manual dispatch actions, they do not work well for smaller BMUs.



We are looking into making adjustments to how the basic instruction creation principles are applied in OBP, to more accurately reflect how BMUs behave on a minutely basis.

ESO

BPs and ZPs Profiles of Interest & Proposed Longer-Term Changes

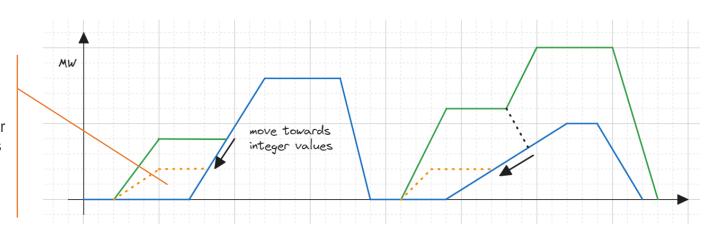


<u>Principle #1</u>: we report as "BPs" the minimum required number of points that enable matching as closely as possible the expected BMU profile post interpolation (these should be all points where we have a change in curve-slope/ramp-rate).

Principle #2: we do not report BPs that occur within the minute (we are not modelling or dispatching at such high accuracy levels).

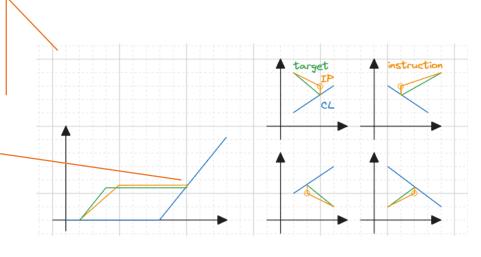
MW Rounding Rules & Proposed Changes

(1) Current implementation would generally make available BOAs shorter until an integer point is found – it may not always be possible to create an instruction.



(2) Revised implementation would follow a logic existing in BM – rounding up for OFFERs, and down for BIDs.

(3) This can create up to 1MW steps in CL. In some cases BMUs might not be able to immediately follow such a step, but could adjust profile slightly to account for the volume – which should be small.



<u>Principle #1</u>: Round to a direction that ensures no simultaneous BIDs and OFFERs are created.

<u>Principle #2</u>: Ensure ramping between IPs is possible (by adjusting flat levels as needed)

<u>Principle #3</u>: For BPs round towards CL as a general rule. This ensures profile does not cross e.g. high price bands, but might not always align with ramp-rates. Ensuring the latter, combined with rounding could lead to more significant changes in the final instruction flat level and a deviation from the actual ramping levels.

Note that this largely affects settlement only - where metering errors come into play too - rather than control plans/actions.

Key Questions

Q1: Changes with regards to how Break Points are created.

Q2: Rounding start/end Instruction Points with a small step from integer to CL

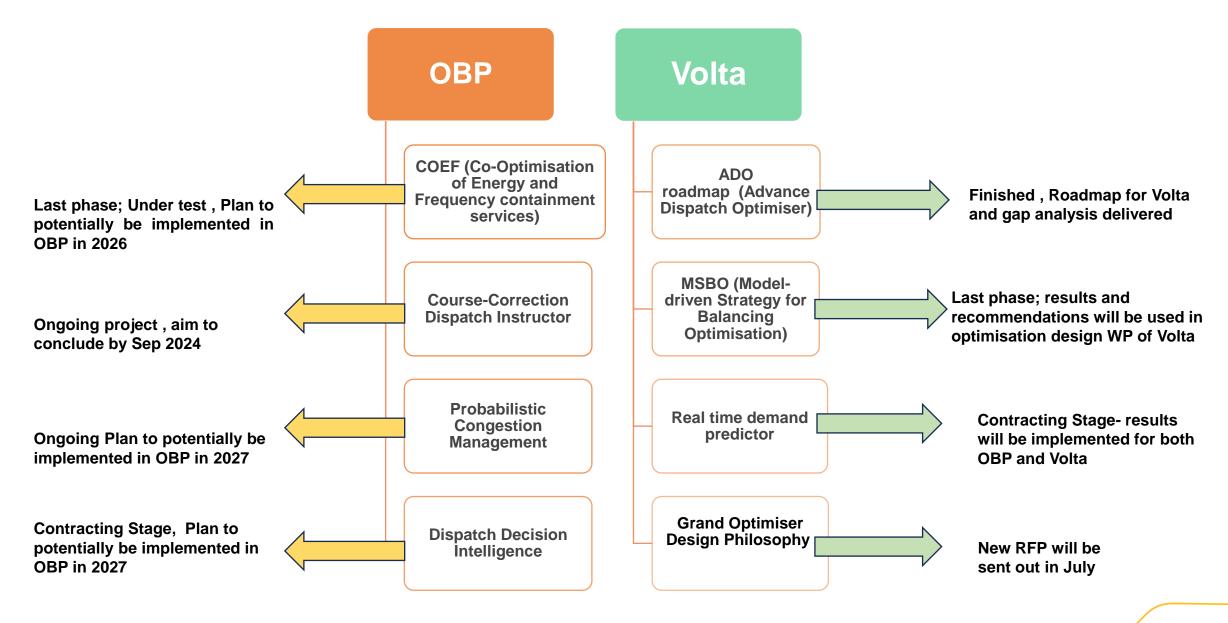
Q3: Ramping considerations (ensure ramping between IPs is possible, but relax requirement for BPs), rounding towards CL.

Note that

- ... changes do not change current settlement process and do not require changes in Elexon systems.
- ... we are looking to improve upon current BM instruction principles
- ... the volumes under consideration are expected to be relatively small compared to what is actually dispatched.

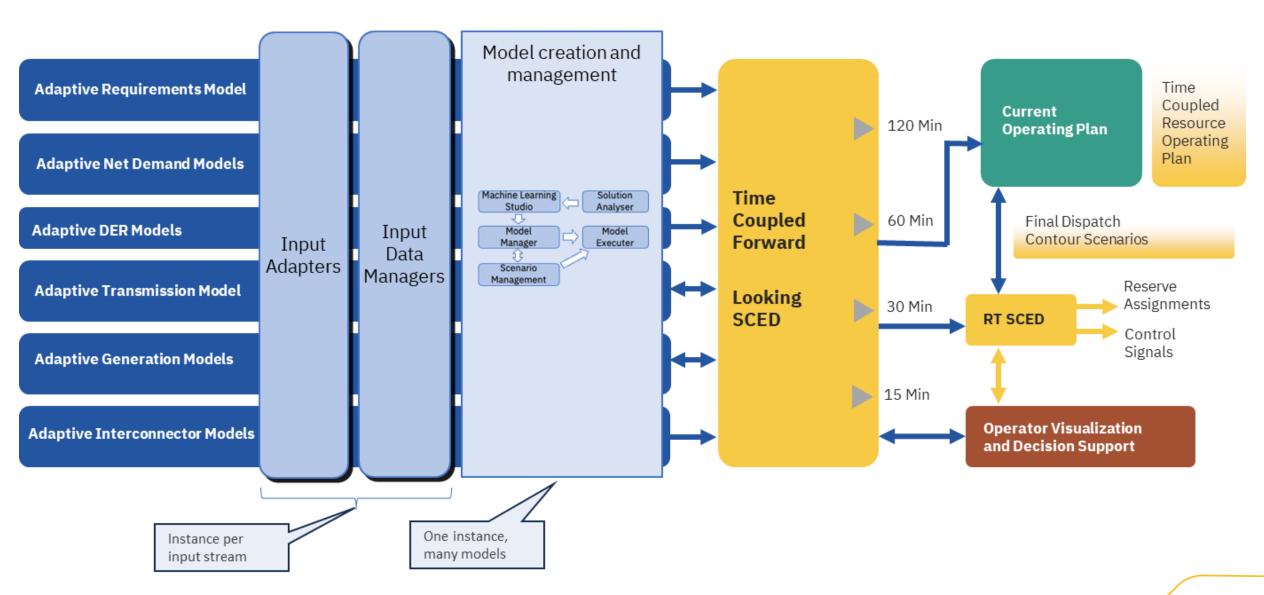


Introduction to our Innovation Projects and Plans



Our North Star for 2030





July 2024

- Send out 3 RFPs for first stage projects :
- Value and Feasibility analysis for input data models
- 2. Qualitative Benchmarking & Impact Analysis
- 3. Grand Optimiser Design Philosophy

Sep-Dec 2024

- Wrapping up first stage projects and based on the findings preparing for next projects:
- 1. Developing New Optimisers
- 2. Developing Adaptive models







June 2024

- Volta Program Kicked off
- Advisory Group formed
- First project kick off (Real time predictor)

Aug 2024

- Forming Academic Board
- Developing Joint 5-year roadmap with Future control room team

Volta Long-Term Plan

2025 Development of Integrated Optimization Platform Robust Adaptive Models

2027

- Advanced Visualization and Decision Support Tool Development
- Development of Performance Monitoring Module

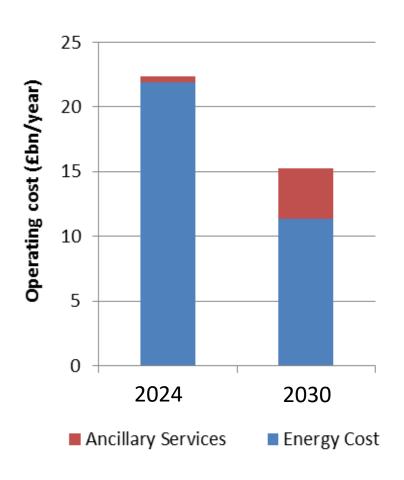
2026

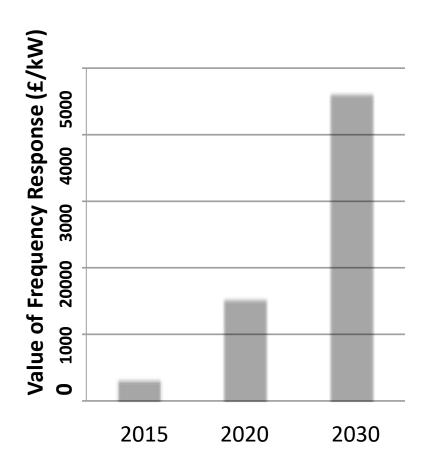
Distribution system Digital model developer

- Initial prototype with single distribution partner
- Development of Scenario building capabilities

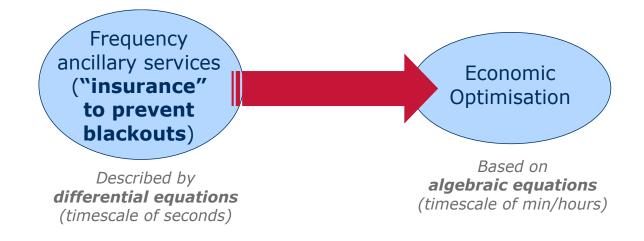
Tool for Co-Optimisation of Energy and Frequency-Containment Services (COEF)

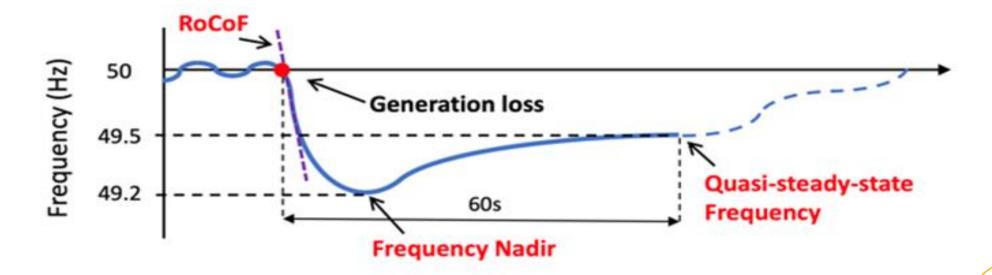
Why do we need this?





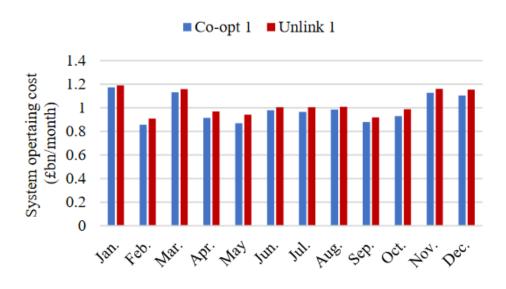
Main Goal: Proposing a New Model for Co-Optimisation of Energy and Ancillary Services



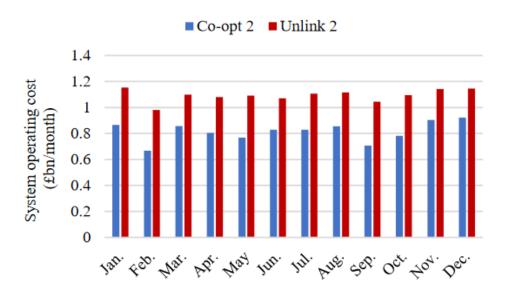


Benefits of Co-optimisation of Energy and Ancillary services

Current cost

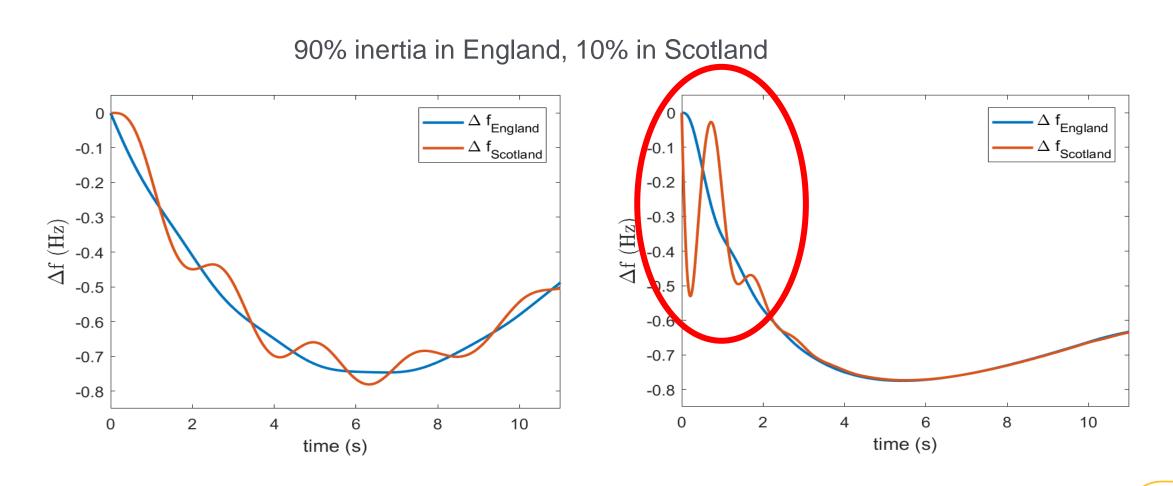


2030 Cost

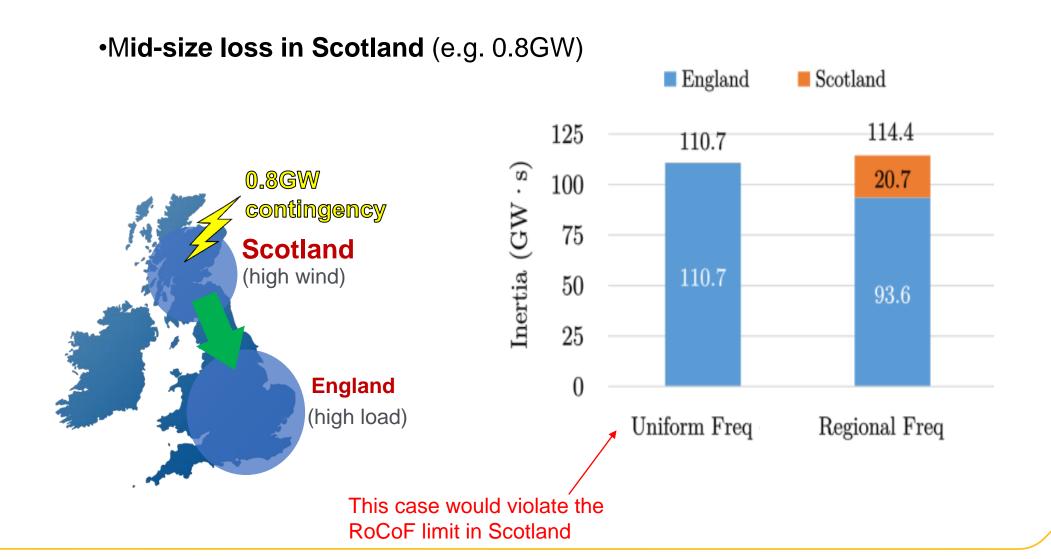


Impact of Fault Location: Contingency in Low-inertia Region

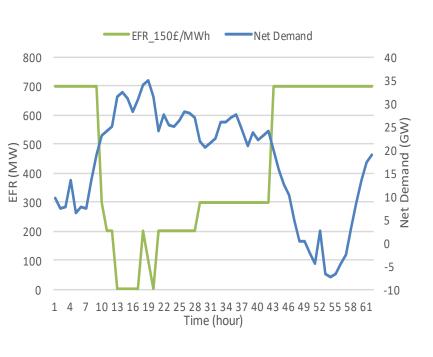
When there is a non-uniform inertia distribution and the faults occur in the low-inertia region

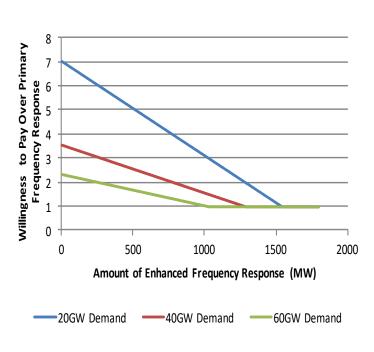


Impact of Fault Location: Contingency in Low-inertia Region

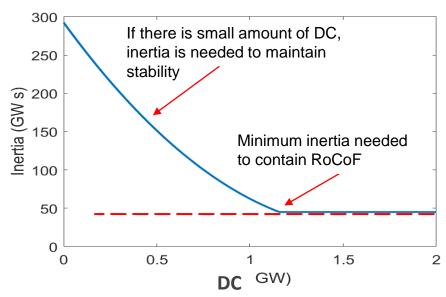


Market Evolution - Time-Specific Value of Flexibility Services, Real-Time Auctions for Energy and Ancillary Services

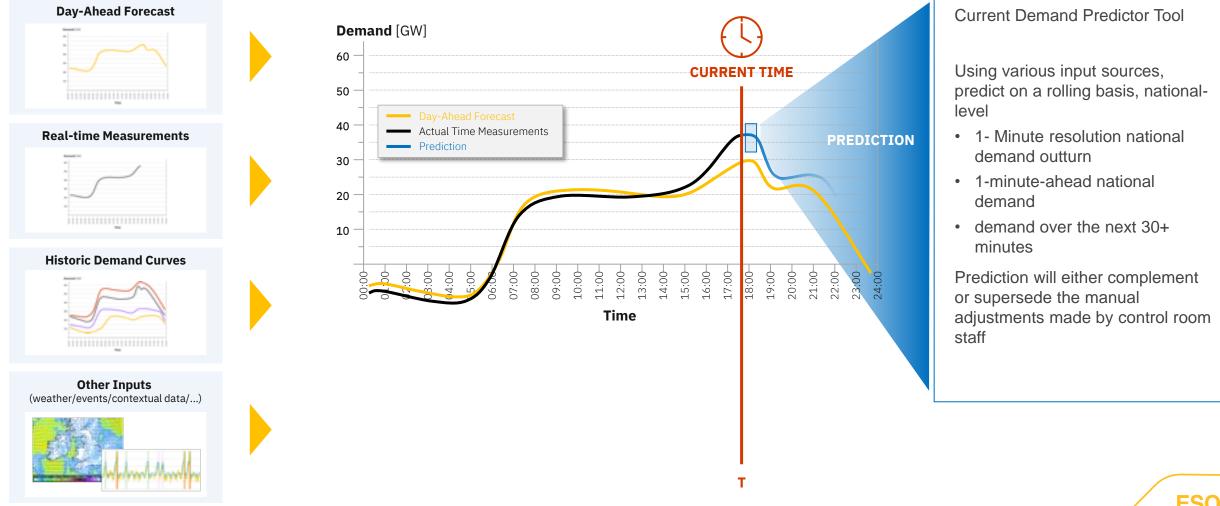




Dynamic containment (DC) can be very effective in reducing the need for inertia

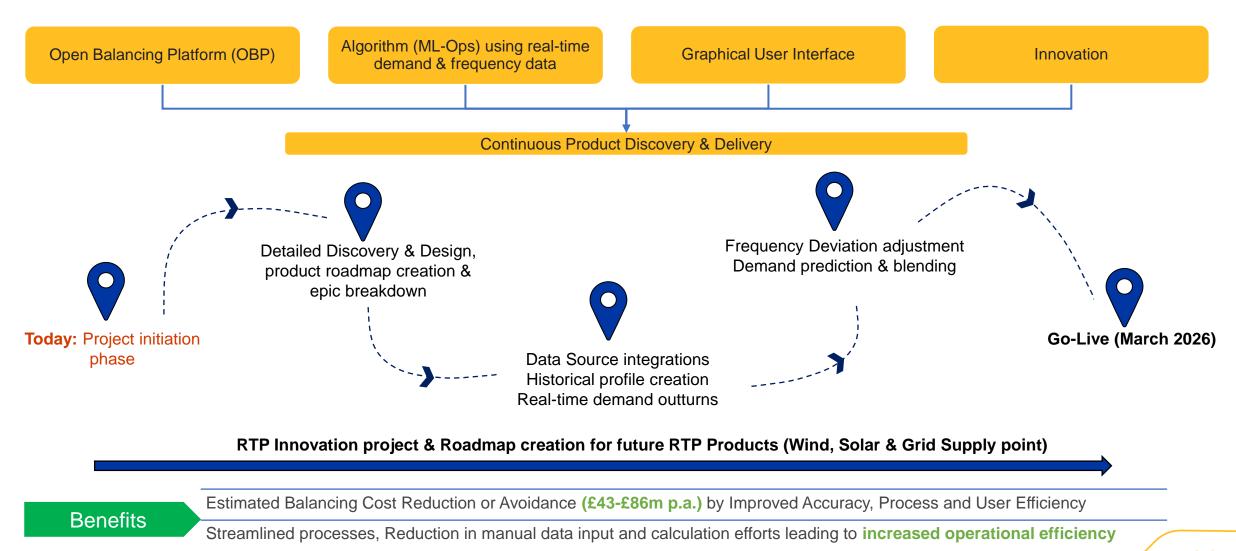


This tool provide a national-level, minute-by-minute demand prediction on a rolling basis

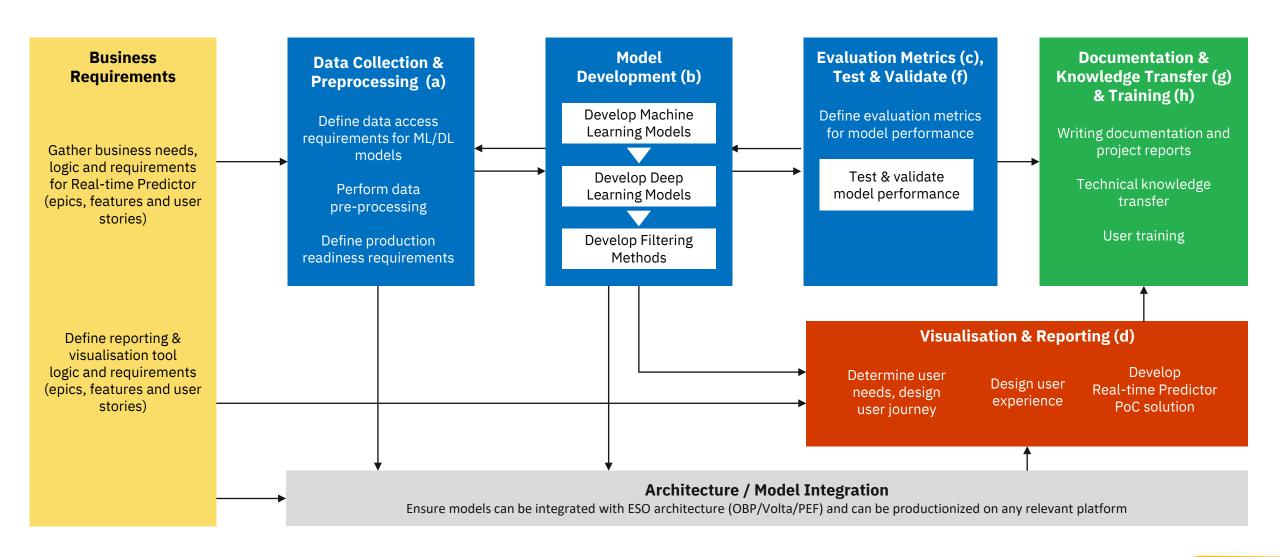


New Real-Time Predictions (RTP)

To provide improved minute by minute frequency corrected national demand forecasts and outturns



Real-Time Predictor, Innovation Project





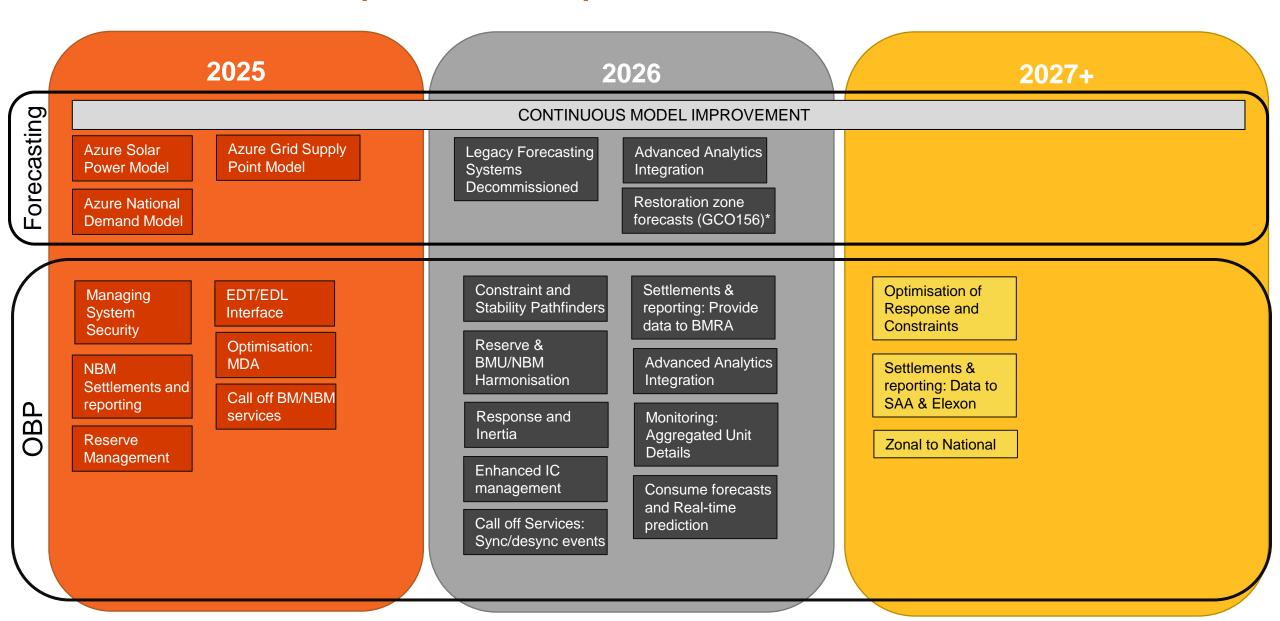
Future Product Development 2025 – 2035

Title	Presenter	Duration
Welcome & Purpose	Bernie/Neil	5 mins
Roles & structure	Shaunie	3 mins
Generating ideas	You	20 mins
Prioritisation	You	10 mins
Playback	Table leads	10 mins
Next steps & closing	Bernie/Neil	2 mins

Task: Seek your input into our Product Development prioritisation for 2025 – 2035 considering the opportunities for Forecasting & Balancing (including innovation).

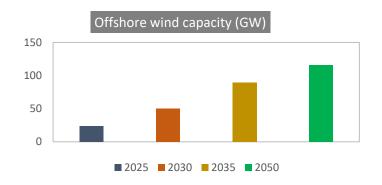
Outcome: Your prioritisation on topics NGESO should consider, aligned to existing or new themes; we will present a summary of the ideas captured & our plans to take those forward as part of our next engagement event later in the year.

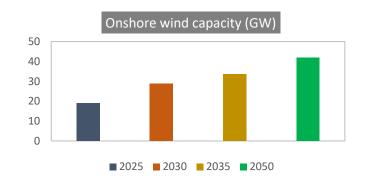
Future Product Development Roadmap

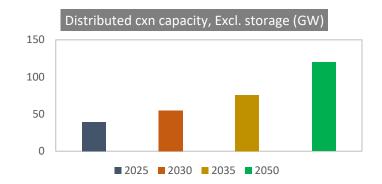


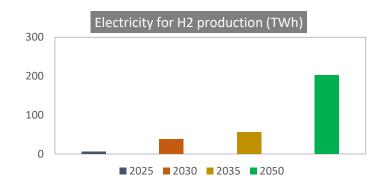
#BPJune2024

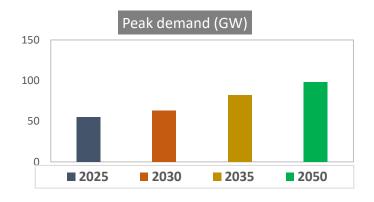
Major Industry trends (FES 2023 Leading the Way)

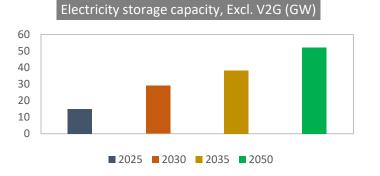


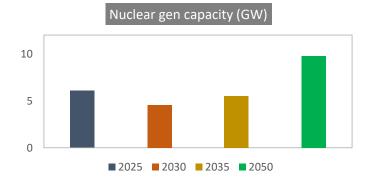




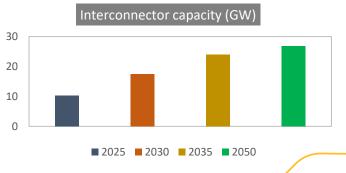












Balancing Enhancement Themes

Whole system management

- Offshore Grids
- Committing to working collaboratively with new and non-traditional system users to find efficiencies
- System performance, stability, and resilience: Enabling integrated management of system frequency, inertia, voltage and fault-ridethrough to mitigate new vulnerabilities from increase in non-synchronous generation and volatile operational conditions due to extreme weather and geopolitical factors

Enhanced decision-making tools

- Scenario management
- Adaptive models
- Market Design & Commercial Frameworks Enabling market arrangements that evolves with
 technological capabilities to remove inefficiencies
 and promotes fair competition

Operational data

- New signals to better manage new sources of supply whilst addressing perennial issues of incomplete geographical coverage and variable reliability and quality of operational data
- What data do we need to manage systems?
- What data do you need?
- Transparency: Enabling accessibility and timely visibility of justifications for control room actions as decisions become more numerous, complex and automated

Forecasting Themes

New/Improved Models & Methodologies

Transparency, Insights & Analysis

Data

Other

Balancing Themes

Enhanced Decision Making Tools

Whole System Management

Operational Data

Other

Defer Judgement Seek Combinations Strive for Quantity Freewheel



ESO Customer Focus

Setting ourselves up for success working with you to build trust and deliver on our collective goals







Listen

Customer feedback tells us we need to be:

More responsive

Deliver on time

Improve our collaboration

Contact details:

box.customerservice@nationalgrideso.com Simon.Sheridan@nationalgrideso.com

Partner

What do these mean in practice?

Respond to emails/calls and be clear in our articulation and set expectations together

Delivering projects when we say we will, engaging earlier when things are delayed and being clear why

Real collaboration – bringing people in earlier, being open to change, transparent in our decision making when we don't agree

Act

What have we started:

Customer Culture – how we listen. how we partner with industry and how we act and deliver on our collective commitments

Customer vision for our teams, a plan to get there and tracking the data and actions

Using insights now - hearing what customers need now, more proactive in responding to these

Balancing Programme Customer Vision and Objectives

What are we going to do?

We will transform our customer experience by engaging effectively with our customers, listening with care and being transparent with our decision making. We take ownership of our commitments and are trusted to deliver system transformation that is flexible to future needs.



Understanding your priorities and challenges, providing opportunities to collaborate on solutions.



Keeping you informed of our future deliverables, reasons why these may change, and where and how our plans impact you.



We will deliver our transformation roadmap with agile releases of new technologies into the control room; your insights will help inform delivery now & beyond 2025.

Why are we doing this?

Engagement & Communications



Specific topic discussions needed and updates between events

Improved accessibility to attend events



Introduced Focus Groups and a regular newsletter

We now alternate between webinars and in-person events

Transparency



A clearer understanding of the impact of our delivery on market participants

Improved transparency on OBP development & progress



We provide OBP utilisation and delivery updates via various channels.

Roadmap updates at our events highlight impacts on Market Participants

Programme Delivery



Battery Dispatch needed to be brought forward in the plan as priority

The 15-minute rule hindered battery dispatch and utilisation



Delivered the Battery Zone in OBP in December – 3 months early



We have now transitioned to the 30-minute rule

How are we going to do it?

Snapshot of planned improvements to respond to feedback



Dedicated Balancing Programme team leads and more regular 1-2-1 conversations



Inviting customers to talk directly to the teams developing the system changes



Provide better visibility of the development activities of the team and the scope of our work



Improving access to roadmaps and other documentation on our website, making it easier to find



Listening Sessions to find out directly from you what you would like us to do differently or improve.

Table Exercise: Exploring Solutions to Reach our Vision

Group Exercise (40 minutes) – On your table you have a template, pens and post-its. This is a facilitated table discussion for you to provide your feedback. You have a member of the team with you on your table who will guide you through this.







2024 Looking Forward: High-Level External Engagement



Next Steps...



We welcome your feedback – please get in touch via the email address below



Slides from today's session will be published on our website, along with the Q&A



You can reach out to the Balancing Programme team via email – **box.balancingprogramme@nationalgrideso.com**



Sign up to the Balancing Programme Newsletter for more regular updates - <u>Get</u> the <u>latest from ESO - Balancing Programme (nationalgrid.co.uk)</u>



Sign-up to our Stakeholder Focus Groups for Optimisation, Technology, & Forecasting - Balancing Programme Stakeholder Focus Groups

