

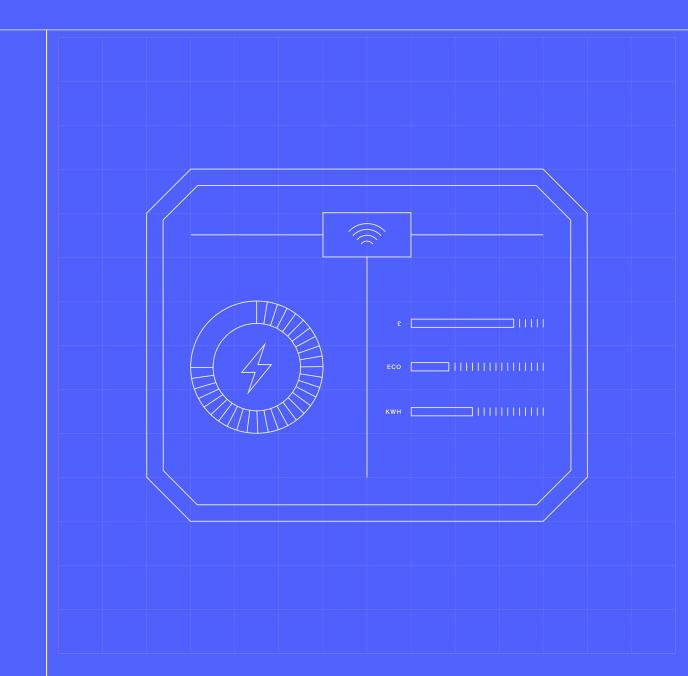
Programme Initiation Document (Charter)

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Scope & Objectives





MHHS Programme Scope & Objectives

Key Objectives

- To deliver the Design Working Group's Target Operating Model (TOM) covering the 'Meter to Bank' process for all Supplier Volume Allocation Settlement meters
- 2. To deliver services to support the revised Settlement Timetable in line with the Design Working Group's recommendation
- 3. To implement all related Code changes identified under Ofgem's Significant Code Review (SCR)
- 4. To implement MHHS in accordance with the MHHS Implementation Timetable
- To deliver programme capabilities and outcomes to enable the realisation of benefits in compliance with Ofgem's Full Business Case
- 6. To prove and provide a model for future such industry-led change programmes

In Scope for Delivery

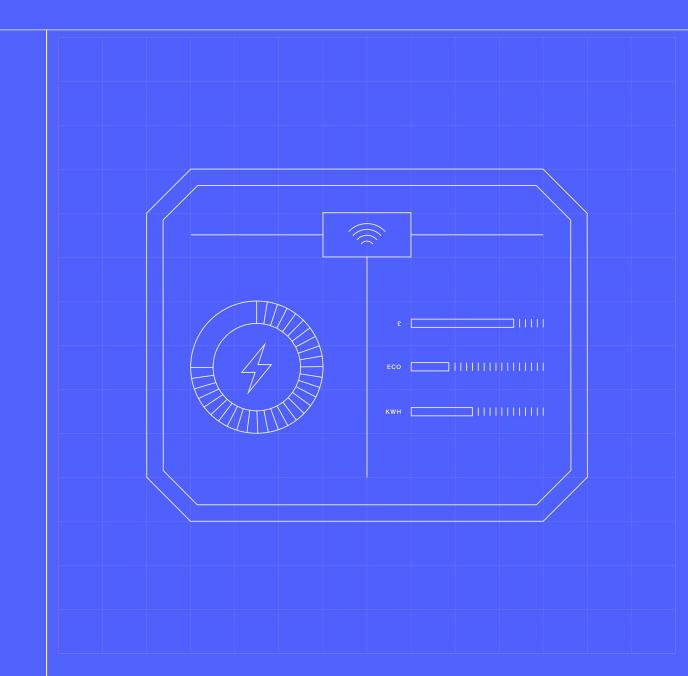
- 1. Delivery activities in scope for the programme are primarily:
 - Development of the MHHS solution design, its assurance and agreement to it, in MHHS programme governance
 and resultant changes to the BSC and other industry Codes
 - Coordination, support and assurance of programme parties' own technical and operational solution development in line with the programme plan
 - Definition of programme test and data strategies, and related planning and coordination of all testing and data activities plus the development of supporting emulators and simulators
 - · Coordination of programme parties' qualification and business testing
 - Definition of migration strategy, related planning and coordination of migration activities and cut-over/Go-Live execution
 - · Definition and implementation of hypercare and programme exit
 - Management of cross-Code dependencies and inter-dependencies with other industry change initiatives
 - All programme, change management (including party readiness assessments) and assurance, including the operation of suitable governance, to underpin effective delivery of the expected capabilities and outcomes
- 2. Parties and groups in delivery scope:
 - Ofgem
 - Central Parties (Platform and Network providers)
 - Large, Medium, Small, I&C Suppliers
 - Independent and Supplier Agents
 - · DNOs, iDNOs
 - · Code Bodies

Out of Scope

- · Realisation of benefits
- Programme Participants' changes to systems that do not directly interface with MHHS
- Management of the IPA

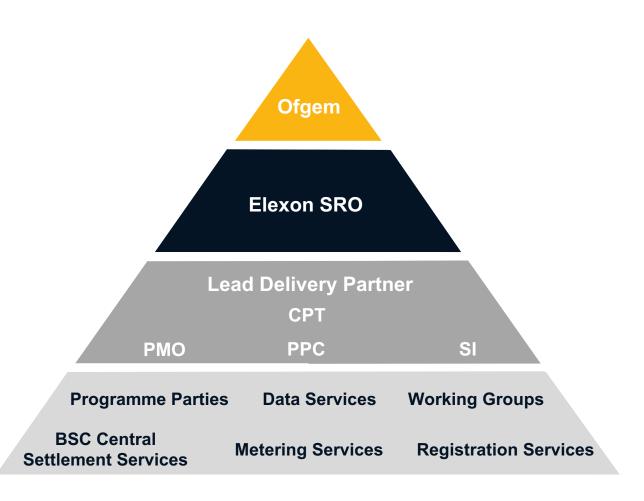


Delivery Approach, Principles & Methods





How the LDP will support the SRO Function, Ofgem and Programme Participants



Central Programme Team (CPT)

Manages day-to-day delivery of the MHHS Programme and provides Elexon with advice and support. Advises on issues and risks. Takes action to ensure the Programme can deliver effectively.

Programme Management Office (PMO)

Supports the efficient and effective delivery of the Programme.

Provides framework for managing the day-to-day activities, ensuring programme standards, tools and templates are being adhered to.

Coordinates Programme Assurance activities.

Programme Party Coordinator (PPC)

Ensures that Programme Parties are ready to proceed into each phase. Works with Programme Parties, challenges where appropriate, and escalate any party readiness concerns. Provide an industry coordination service.

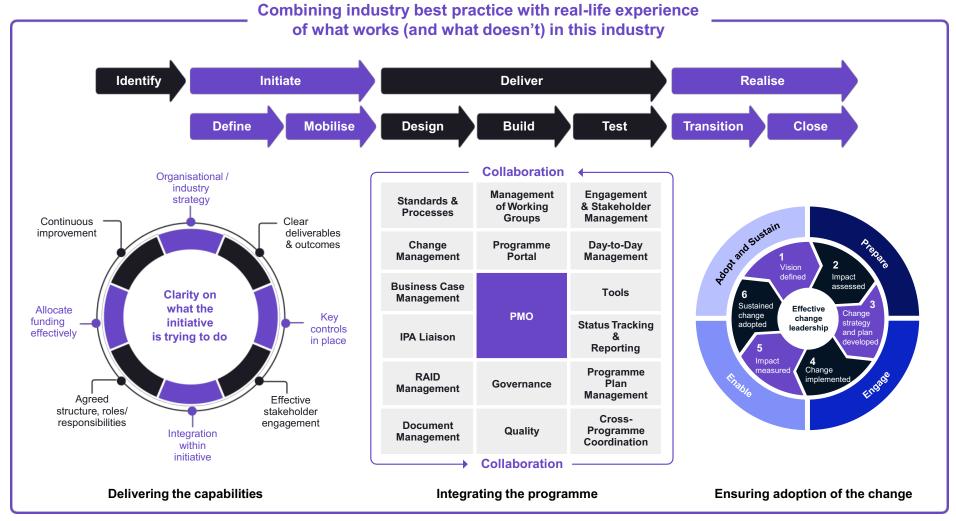
Systems Integration (SI)

Assures the Design, overall integration & test plans, manages & coordinates plans, resources to ensure testing and integration is successful. Works with PPC team and Programme Parties to ensure parties can meet Programme milestones.



Document Classification: Public

Programme Delivery Framework





Programme Approach, Principles & Methods

Programme Approach	Programme Principles	Methods to drive Programme Delivery
Delivery-focused	 Focus on delivery, founded on best practice Design-led, not Code-led Active participation of all Programme Parties 	 Decisions made through industry governance groups Deliver by continuous collaboration with Programme Participants and their SMEs Set the path from design, through build, test and migration – supported by enabling Code changes
Data-driven	 Guide through analytics and insight Focus on root causes, themes, patterns, trends – addressing underlying challenges not just visible symptoms Ensure 'one version of truth' for all data and artefacts 	Better decisions informed by relevant and timely MI
Technology-enabled	Use digital tools via Programme PortalRely on Portal to ease access and dialogue	Create Portal as 'window into the programme' for equitable access for all participants
Relentlessly proactive	 Lead by example, set the tone and pace Deal with complexities early Provide consistent line of sight 	 Engagement at all levels & with industry to flush out RAID Resourced with the right expertise to resolve complexity
LEAN and agile	 Efficient use of resources by elimination of wasteful activities Effective and responsive delivery 	 'Waterfall' programme delivery to milestones with agile philosophy on a continuous basis Self-organised Level 4 governance
Quality-driven	 Quality in decision-making via transparency and information-based insight Evidence-based 	 Dedicated Quality Manager Robust and agreed Quality Management Framework 'Open book' to IPA



Change Management Strategy

The MHHS Programme has adopted a 4-pronged approach, that will guide the design and execution of change activity to ensure Programme Participants receive end-to-end support. Different parts of the approach (prepare, engage, enable, adopt and sustain) will run in tandem where most effective.



Prepare: be clear on the vision and rationale for the MHHS Programme, the impact of the programme on Programme Participants, and define the strategies and tools required to help them succeed

Engage: raise awareness and understanding of the MHHS Programme, including what it means for each Constituency, the timelines, obligations, and the benefits

Enable: continually assess impacts and readiness, using the findings to inform how best to support and equip Programme Participants with the skills and knowledge required to successfully meet their obligations

Adopt and Sustain: ensure the change sticks by helping Programme Participants and Elexon to take ownership of the change and manage ongoing transformation post - hypercare



Document Classification: Public

Key outcomes we are aiming to achieve through effective change management

Desired outcomes have been identified to inform the planning of change, communications, engagement and readiness activities



Prepare

Outcomes of this stage:

- ✓ Vision and case for change defined
- √ Stakeholders assessed
- ✓ Impact of programme on Constituency groups understood
- ✓ Change, communications and engagement, and readiness approach developed



Engage

Outcomes of this stage:

- ✓ All Programme Participants engaged on a regular basis, through a mix of channels
- ✓ Understanding of programme's requirements built amongst all Programme Participants
- √ Rapport built and two-way dialogue in place
- ✓ Champion network equipped to advocate MHHS



Enable

Outcomes of this stage:

- ✓ Change impacts assessed and understood
- √ Readiness for key milestones / control points assessed and monitored
- √ Feedback loops established and approach / support tailored accordingly
- ✓ Change support tailored to ensure success across all Programme Participants, reflecting assessment findings and feedback



Public

Adopt and Sustain Outcomes of this stage:

- ✓ Readiness confirmed for go-live
- ✓ Hypercare support provided
- ✓ Change tools, assets and knowledge handed over
- ✓ Success stories and lessons learned captured and shared



Ways of Working - Programme Principles for Party Collaboration

Delivery Focus

- Be delivery-focused in all activities
- Act to deliver MHHS objectives collaboratively and not take action that would cause detriment to the programme as a whole
- Be open and proactive in sharing all relevant information to the delivery of the MHHS Programme, including MHHS Programme decisionmaking
- Follow industry good practice
- Take reasonable steps to collaborate to resolve issues, mitigate risks and assess change

Relationship & Trust

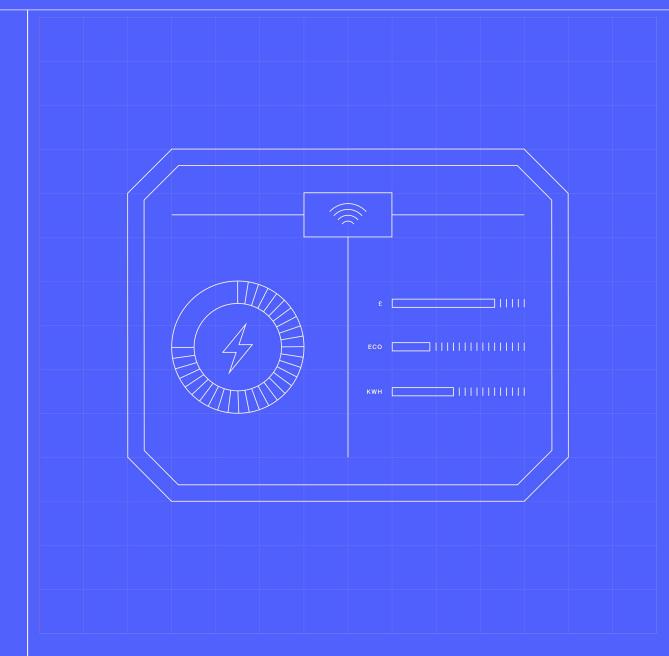
- Respond promptly to reasonable requests for information from each other
- Share information and be transparent unless there are incontrovertible reasons not to do so
- Respect confidentiality and commercial sensitivity of information and introduce no Conflicts of Interest (e.g., DIP procurement)
- Be clear what each party wants from the other(s) and why
- Promote predictability and trust parties shall enable the building of mutual trust by consistently meeting obligations and expectations and acting reasonably

Participation & Proactivity

- Be proportionate collaborative working should not be overly burdensome and should be proportionate
- Proactively provide early warning of material risks and issues and any dependencies
- Ensure appropriately skilled people are attending the appropriate meetings
- Encourage informal feedback, participate in any more formal survey or feedback loop



Deliverables, Outcomes, Capabilities & Benefits





- The MHHS Programme has developed a Benefits Realisation Plan, consulted on with the IPA and Ofgem and approved by PSG, which defines:
 - o The Key Programme Outcomes and measures (KPIs) to deliver the outputs, capabilities and outcomes that enable industry benefits to be realised
 - How the LDP will monitor and report on the delivery of those Key Programme Outcomes
- This has resulted in enhancements to the Programme Success Measures and Criteria, which are highlighted below
- This Benefits Realisation Plan will evolve as the Programme progresses and will be subject to iterative development, as set out in the Next Steps below
- The Benefits Realisation Plan can be found at this link



Deliverables, Outcomes, Capabilities & Benefits – Benefits that drive achievement of the vision

MHHS Vision

s benefits for

MHHS that delivers

enduring

and

develop ar sumers by r

maximising t intelligent

metering in enabling 2025.

Improve accuracy and frequency of cost information for suppliers

Ensure future energy system is affordable for consumers

Encourage more flexible use of energy

Create powerful incentives for suppliers to offer new tariffs and products

Support transition to net zero

Strategic Objectives

Source: Ofgem Outline Business Case - Market-wide Half Hourly Settlement

> To promote an electricity system that delivers the Government's and Ofgem's objectives in a cost-effective manner, minimising the overall cost to current and future consumers of moving to a net zero carbon electricity system

System-wide welfare benefits from load

£1,200m estimated cumulative direct benefits for low load shifting scenario and £3.550m for high load shifting scenario (2026-2045)

Benefits from including export-related MPANs

Mostly qualitative description

More efficient qualification process for new

Benefits

Source: Ofgem Final Impact Assessment - Market-wide Half Hourly Settlement

Incentivising innovation

Incentivise suppliers to manage the actual costs of providing energy to their customers more efficiently

Increased competition

Remove barriers to entry for new market players by reducing the overall costs of the settlement process

requirements

Reduction in supplier exposure and settlement collateral requirements, reducing market entry barriers

Cost Savino Monetised Benefit

Monetised Benefit

Increased competition

Exposing suppliers to the true cost of supply of their customers incentivises them to encourage load shifting, allowing for cost savings and a competitive advantage by offering new and innovative tariffs

Increased competition

that capitalise on new market incentives, cost reduction

Fewer settlement errors and lower collateral

Enable new technologies and business models facilitating and incentivising load shifting and thus

To develop settlement arrangements that incentivise all retailers and suppliers (current and future) to encourage customer behaviour that contributes to a more costeffective electricity system

Consumer benefits (consumer surplus) from load shifting

£2,100m estimated cumulative direct benefits for low load shifting scenario and £5.050m for high load shifting scenario (2026-2045)

Incentivising innovation

Better matching of supply and demand

reduces the cost of managing imbalance

positions

£49m estimated cumulative cost saving (2026-

2045)

Reduction in cost of managing imbalance

positions due to improved matching of supply

and demand

Several suppliers reported related cost savings

amounting to £4.5m per year

Fewer settlement errors and lower collateral

Promote a more accurate settlement process,

with better quality data and fewer settlement

Incentivise consumers to find and switch to the right offering for them through digitalisation

Incentivising innovation

Incentivise retailers to offer new energy tariff-only propositions, new third-party managed energy services, new bundled 'asset and tariff' offerings and more niche offerings that could be targeted at local communities

Incentivising innovation

Incentivise third parties offering price comparison tools to provide a more comprehensive service, considering the electrical appliances and other assets a consumer owns and tailoring the service to the consumer's requirements

To support Ofgem's aim to enable a future retail market that can deliver the technological and behavioural changes needed to support decarbonisation at lowest cost, while ensuring that the interests of consumers remain protected

Reduced carbon costs driven by a reduction in carbon emissions due to higher proportion of renewables in generation mix

£100m estimated cumulative carbon cost savings for low load shifting scenario and £1,250 for high load shifting scenario (2025-2045)

Benefits enabled by the MHHS programme are generally expected to be realised by industry

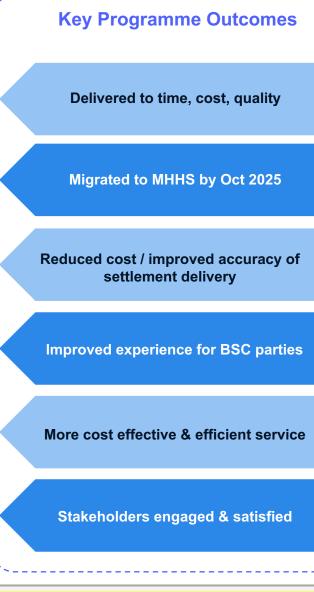
The MHHS programme must deliver capabilities and outcomes that make those benefits possible

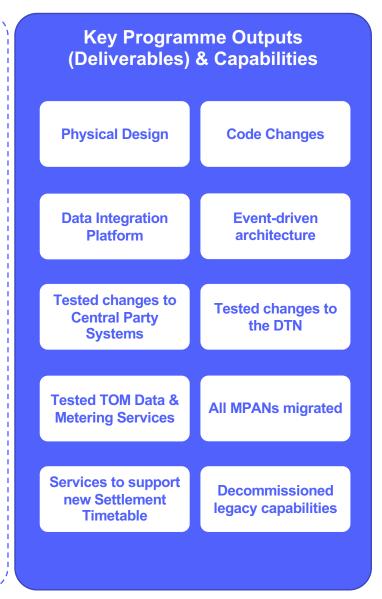


Success Measures Success Criteria (to be further quantified) Ofgem escalations, and material IPA and Elexon SRO Business case met Schedule met Design requirements appropriate / met MPANs moved, disincentives & Design proven to central parties and a contingencies in place for non-moved critical number of industry parties No business disruption Settlement figures reconcile All parties have adopted cutover No adverse impact on Industry Codes Legacy systems decommissioned Reduced costs of systems' future 10. Reduced no. of settlement runs changes 11. Reduced industry costs Modifications to the Balancing and 12. Increased financial certainty for **Settlement Code implemented** parties 13. Earlier financial certainty and Generators & Suppliers able to resolve reduced settlement risk from earlier financial uncertainty quicker final reconciliation at 4 months All market participants confident to rather than 14 months operate within new model, supported Clear and efficient qualification by the Kinnect platform process 15. New market services, new tariff New market model in place offerings, new entrant agents Platform to enable innovation in 16. Elexon PAB approve use of new energy service and business models settlement timetable and settlement Reduced cost to serve run-off plan Parties feel represented & included 117. Positive periodic surveys and results of bilateral meetings, including Citizens Advice successfully engaged Citizens Advice to provide input to represent 18. Design captured coherently and

· Industry-led delivery model proven to

be better





accurately in accordance with the

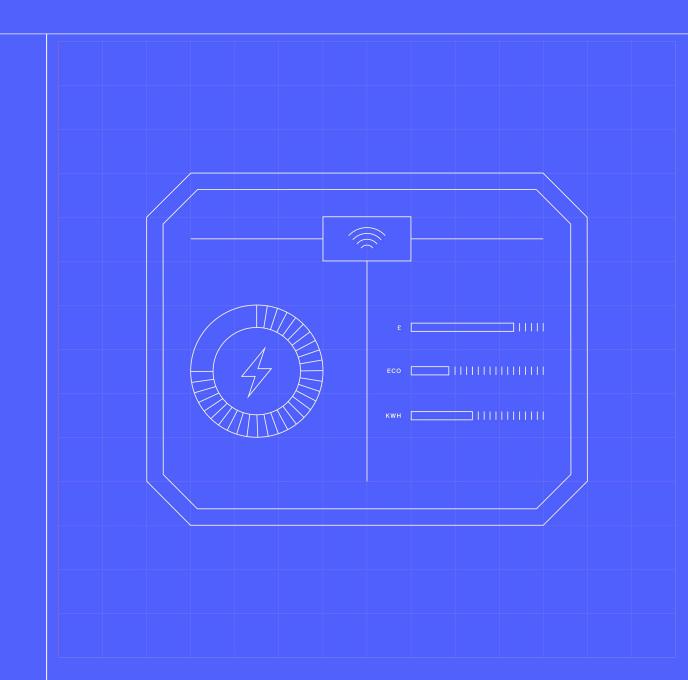
TOM and tested

Deliverables, Outcomes, Capabilities & Benefits - Next Steps for Defining and Managing Programme Success

- A periodic Programme Strategy Review will be conducted:
 - o To happen at each identified Control Point (as a minimum)
 - Will be chaired by MHHS SRO function (Programme Director)
 - o To include the IPA and the results of the review will be reported to Ofgem and the PSG
 - o Will include a full review of this Programme Initiation Document and the associated strategies
- Specific focus must be on:
 - Programme outcomes
 - Outcome measures
 - o Roadmap for achieving programme outcomes identifying when each outcome will be achieved
 - o Current status of progress towards outcomes being achieved
- Reporting on the plan for (and progress towards) achievement of programme outcomes will be provided to the Elexon Board, Ofgem and the PSG In addition, as part of the iterative development of the Benefits Realisation Plan, the MHHS Programme will:
- update the programme PMO tools and processes, e.g., RAID items, change control form updates to explicitly reference impact on Programme Outcomes, etc. to reflect the Key Programme Outcomes and associated Success Measures
- Include a full review of the milestone acceptance criteria in the Programme Strategy Review
- Ensure measure of Citizens Advice input included in monitoring (not just attendance at meetings)
- Consider how adaptability might be reflected in future programme outcome development as per the success criterion on enabling innovation
- Consider how to reflect consequential impacts/dis-benefits and providing a more quantifiable measure under the MPAN success criteria
- Consider how to track change over the lifetime of the programme and how this might impact programme outcomes
- Consider what interim monitoring might be able to be put in place towards post-go live benefits realisation in Control Points

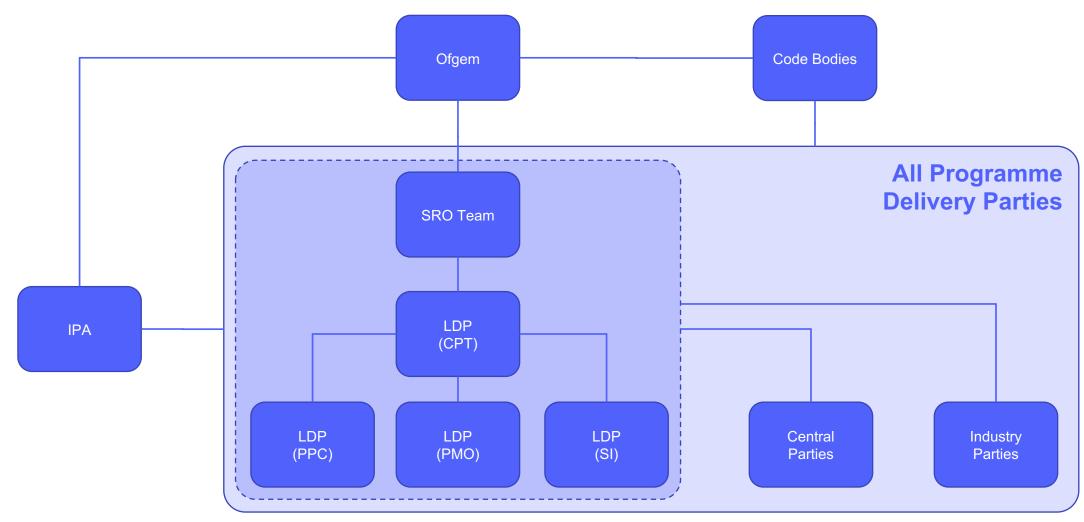


Organisation & Governance





Programme Organisation





Organisation & Governance

Lead Delivery Partner:

Core Programme Team

Lauren Nicholls

Programme Party
Co-Ordinator (PPC) Interim Lead

- Plan and manage party communications and engagement
- Run Readiness Assessments
- Support Programme Parties

Lewis Hall

Programme Management Office (PMO) Lead

Build and operate accessible PMO with strong digital tool-set

Helen Richardson

Business Change Lead

- Use the insight gained from programme and market developments to continuously shape the efficient delivery of the programme
- Apply change expertise to the success of MHHS

Keith Clark

Programme Manager & LDP Lead

- · Manage the programme
- Lead the LDP team
- Engage senior stakeholders

Anthony Ginn

Systems Integration (SI) Lead

- Develop and implement Integration approach
- · Manage overall design, test and development activities

Simon Harrison

SI Design Lead

- · Assure Design initial and ongoing delivery
- · Manage Industry code design engagement

Dominic Mooney

Quality Manager

- Develop programme quality framework and manage programme quality
- Liaise with IPA
- Develop measurable programme quality culture

Jason Brogden

Industry SME

- Apply industry experience to the success of MHHS
- · Resolve complex and high priority issues
- Ensure success through governance

Kate Goodman

SI Test Lead

- Put Test and Data strategies & plans in place
- Implement test tools & simulators
- Manage testing activities



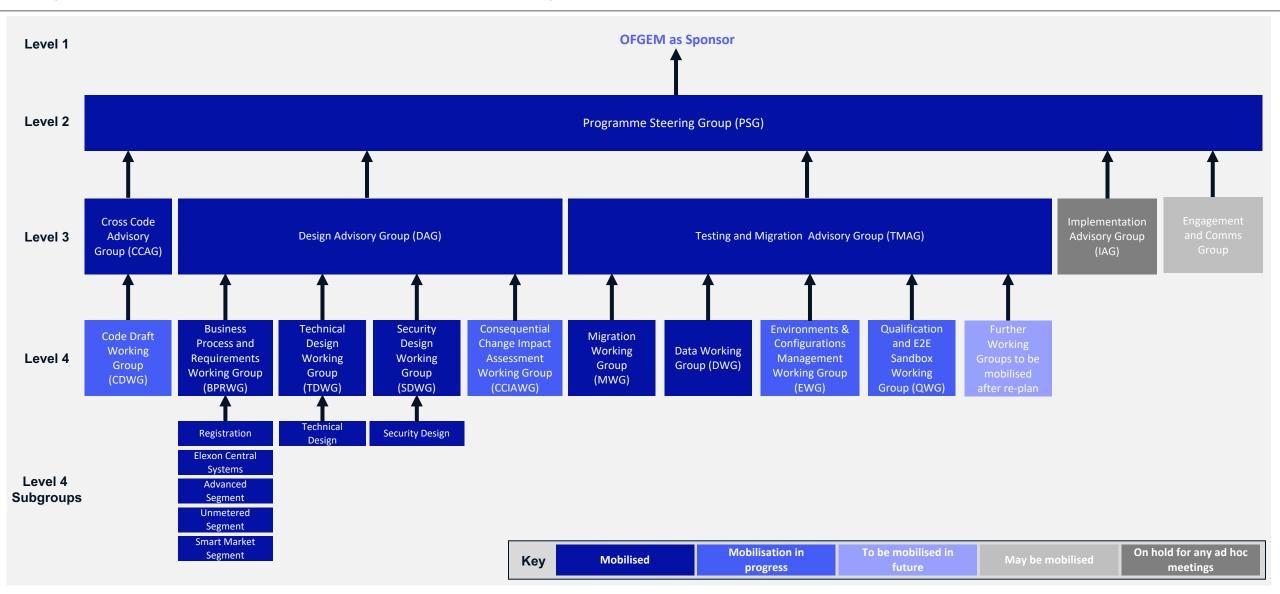
High-Level Roles & Responsibilities

	SRO		L	DP		Central	Industry	PSG or	Code Bodies	IPA	Sponsor	Elexon Board
	Function	СРТ	РМО	PPC	SI	Parties	Parties	delegated to other Governance Body			(Ofgem)	
Programme definition, programme strategies definition and baseline	A, R	R	С	С	С	I	ı	С	I	С		
Programme strategies' review and update	A, R	R	С	С	С	I	- 1	С		С		
Programme outcome KPIs and achievement	Α	R	С	С	С	ı	I	1		С	1	I
Programme escalations (to Ofgem)	R	R	С	С	С	С	С	С	С	С	Α	I
Assurance of management & conduct of the programme (IPA)	С	С	С	С	С	С	С	1		R	Α	I
Programme engagement with Programme Participants	Α	R	R	R	R	R	R	С	С	R		
Management of cross-Code dependencies and inter-dependencies with other industry change initiatives	A, R	R	С	С	С	С	С	С	R	С	С	
Development of the MHHS solution design	A, R	- 1	I	С	С	С	С	С	С	С		
Assurance of the MHHS solution design	С	Α	1	I	R	С	С	С	1	С		
Development and implementation of changes to the BSC and other industry Codes	Α	С	I	С	I	С	С	С	R	С	R	
Coordination, support and assurance of programme parties' own technical and operational solution development	Α	R	ı	R	R	R	R	С	ı	С		
Definition of programme test and data strategies	Α	R	I	С	R	С	С	С		С		
Planning and coordination of all testing and data activities	Α	R	I	С	R	С	С	С		С		
Development of supporting emulators and simulators	С	Α	I	I	R	I	I	I		I		
Pre-Integration Testing (PIT)	С	С	1	С	С	A, R	A, R	1		I		
Systems Integration Testing (SIT)	Α	R	I	С	R	R	R	С		С	I	
Coordination of programme parties' qualification and business testing	A, R	R	I	С	R	С	С	1	С	С		
Party qualification and business testing	С	С	I	С	С	A, R	A, R	1	R	С		
Programme Party consequential changes (to systems not directly linked to MHHS)	I	I	I	С	С	A, R	A, R	1	1	С		
Definition of migration strategy, related planning and coordination of migration activities	Α	R	I	С	R	С	С	С	I	С	I	
Definition and planning of cut-over/Go-Live execution	Α	R	I	С	R	С	С	С	1	С	I	
Execution of cut-over/Go-Live	Α	R	I	С	R	R	R	С	I	С	I	
Definition and implementation of hypercare and programme exit	Α	R	I	С	R	С	С	С	I	С	С	1



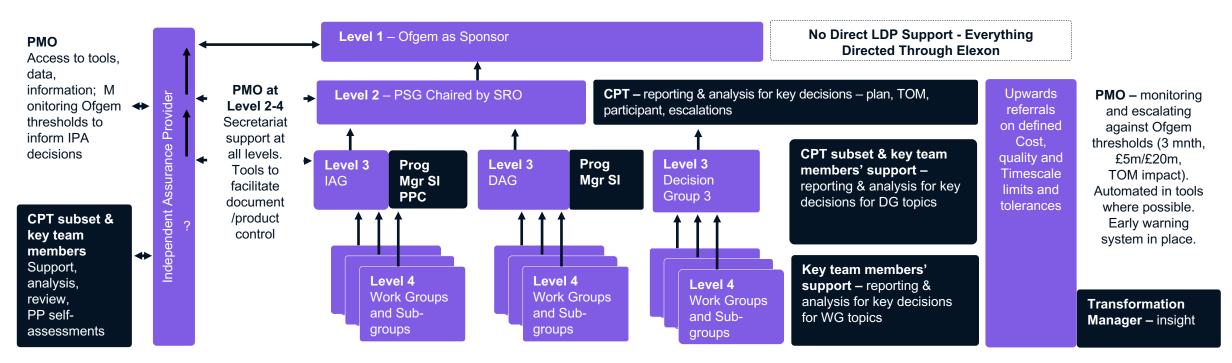
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Organisation & Governance – Current Governance Framework Diagram





How the LDP Supports the Governance Structure



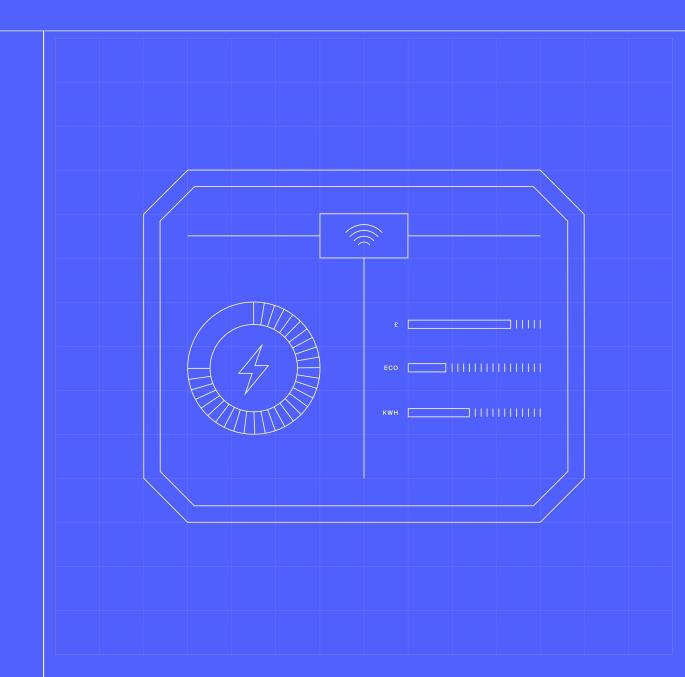
PMO at Level 4

Likely more coordination required as all programme parties invited.

Appropriate controls in place for Security WG (like SEC SSC)



Key Controls





Quality Approach

Quality Objectives

- 1. Establish a coherent thread of quality throughout the programme
- 2. Validate requirements are met
- Embed measurable success criteria
- 4. De-risk Delivery
- 5. Create traceability for Assurance
- 6. Provide a single source of the truth on Quality
- 7. Inform Risk & Issue Management
- 8. Decision making based on facts and insight

Quality Outcomes

- · Confident Stakeholder Decisions
- Programme Delivery Credibility
- Benefits Enablement
- Industry & Consumer Satisfaction

Governance Framework Alignment

A hierarchy of quality validation checks will be implemented throughout the delivery process, that align to the programme governance framework and feed into formal decision points (i.e., milestone approval, controls points or sub-stage entry or exit gates).

Underpinning Quality Principles

- Clear definition of quality requirements for all programme delivery outputs (i.e., formal documentation deliverables, artefacts, or design, build and test phase objectives and outcomes)
- Unambiguous evidence standards and embedding traceability to enable validation of outputs / outcomes
- Continuous monitoring, tracking and reporting of Quality status
- Implemented corrective actions / plans when outcomes have deviated from required quality.

Quality Approaches

Quality Enablement

- Peer and Formal Reviews
- Working Groups
- Consultation
- Tooling (DevOps, dPMO & Programme Portal)

Quality Assurance

- Tracking and Reporting
- Readiness Assessments
- Gates, Reviews and Audits
- Risk Assessments

Quality Improvement

- Predictive Analysis
- Surveys
- Lessons Learned
- Continuous Improvement



Controls - Quality Management: '3-Lines of Defence' Assurance Model

Rising Quality Confidence → First line of defence Second line of defence Third line of defence Delivery of programme plan activities MHHS SRO Function, Central Programme Team, SI, PPC and Independent Assurance Executes and manages day-to-day delivery of plan activities Independent of programme delivery activities, provides as per the responsibilities of each party. Includes parties' Monitors and provides confidence to key stakeholders that confidence to key stakeholders including the Elexon SRO. own quality assurance of delivery and associated outputs. Uses the evidence built by the first and second lines of first Line programme delivery activities are on track in line with the MHHS programme objectives. defence in addition to independent assurance Key focus areas: methodologies. Independent Programme Assurance Provide Overall Programme direction and Steering Function readiness Party Central LDP Systems Programme (PPC) and Milestone readiness and **Parties** PMO achievement LDP Programme Stakeholder engagement and Party Coordinato delivery Design Advisory Design and Architecture Group Testing and Migration Testing Advisory Group Advisory Data Security Advisory Security MHHS SRO Code Bodies Cross Code Advisory Regulatory (inc. Code) Working Groups Central Systems and Programme Party Delivery MHHS SRO Function Independent Assurance Programme Party Delivery Central Systems Delivery

Quality Assurance

- Quality Management will set the standards and acceptance criteria of all deliverables and outputs.
- Programme Parties will be responsible for providing evidence of self assurance (backed by PPC engagement and interviews) in line with the acceptance criteria.
- Quality management will track, review and evaluate that evidence does indeed meet the defined Quality criteria and reports to the programme on the status.
- Quality status tracking and evidence traceability will be appropriately transparent to all parties and the Independent Programme Assurance provider.
- The Quality Manager will collaborate with and assist the IPA with their reporting to Ofgem.



Readiness assessments will be essential to keeping the programme on-track

Readiness assessments will be an essential tool in ensuring all Parties are meeting their obligations to allow the programme to deliver on time, and identifying risks and issues where readiness has not been met. Readiness assessments form part of the data-driven approach to targeting PPC support where it is most needed.

Objectives

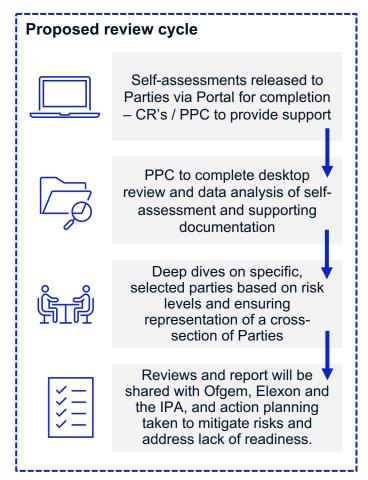
- Understand readiness of Programme Parties to pass through a milestone gate
- Identify Parties' risks and issues in meeting the programme's obligations as early as possible, to maximise time to mitigate
- Allow for targeted support to any Programme Party with difficulties achieving the milestone, rather than lowering the bar
- Capture feedback from Parties' both specific to the milestone, but also broader programme-feedback to inform future activity
- Act as another test of level of MHHS engagement and understanding amongst Parties
- Form part of the '3 line of defence' quality management model as a key tool to assessing whether Parties are meeting the acceptance criteria for deliverables outputs.

Proposed phasing

Readiness Assessments have been designed using the principles that a Readiness Assessment a) precedes each Control Point; and b) is necessary as a checkpoint during periods where there is a long gap between Control Points.

Proposed phasing is as follows:

- RA1 Initial PP Risk Assessment 'mobilisation survey'
- RA2 Completion of Mobilisation & E2E Design, Readiness for System Design and Build
- RA3 System Design & Build Checkpoint 1
- RA4 System Design & Build Checkpoint 2
- RA5 Completion of System Design & Build, Readiness for Integration Testing
- RA6 Completion of Connectivity & Basic Message Exchange Testing, Readiness for E2ET
- RA7 Completion of Integration Testing, Readiness for Go-Live
- RA8 Readiness to Start Accepting All MPANs under New TOM
- RA9 Parallel Run Checkpoint
- RA10 Completion of Parallel Run, Readiness to Cut Over to New Settlement Timetable





Change Control Approach and Process

Scope of Change Control Process

- There are two major sources of change in the MHHS Programme that could require the need for a formal Change Request to be raised:
 - A change to a programme success factor (outcome, time, cost, quality, scope)
 - A change to a baselined programme artefact
- Changes will typically manifest from several different places across the programme. These could be driven by external industry factors, through the Sponsor (Ofgem), the SRO function, IPA or via Programme Participants
- The change process can be initiated by any party on the MHHS Programme and will require an individual owner to work with the MHHS PMO in raising the Change Request
- The scope of the Change Control process covers from when a change is identified, through to when a change has been rejected or implemented (including any commercial arrangements and plans to implement being agreed).

Guiding Principles for Change Control

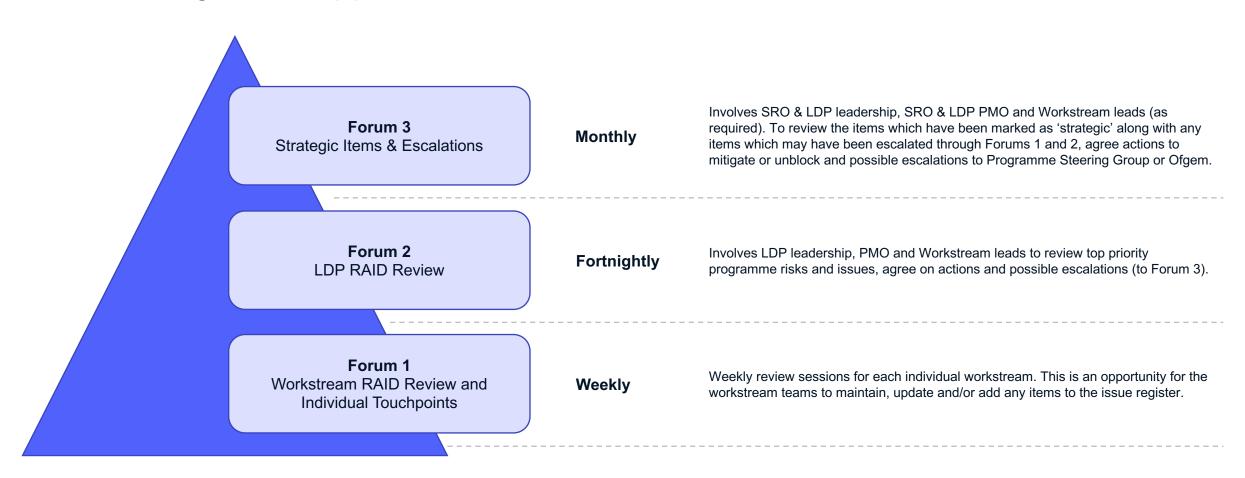
- Clear, simple to understand and followed by all Programme Participants
- Identified, reviewed and authorised quickly and efficiently and outcomes effectively communicated across the programme
- Appropriate control applied to each stage of the Change Control process to allow informed decisions to be made on time and without delay
- Able to capture the cumulative cost of change for the MHHS Programme and wider industry
- Able to articulate impact of each change request on the programme's outcomes
- Able to justify priority for each change request, including the risk to the programme if the change request is rejected, or approved and implemented
- Communicates clear and defined line of accountability and responsibility for approving change
- Explains how approved changes will be incorporated into programme scope and implemented as part of the MHHS Programme.

Implementation of Change Control

- Single Change Control process for the MHHS
 Programme. Clear decision points have been inserted into the process that may allow a change to either be expedited, escalated or passed through as a "housekeeping" change:
- A decision to escalate or expedite a change will be taken by the SRO at the recommendation of the Change Board.
 - An expedited change can be enacted when a CR is raised but requires swifter action that the pre-defined SLAs require
 - An escalated change may be required if it appears that a CR may exceed the thresholds defined in the MHHS Governance Framework
 - A "Housekeeping" change covers administrative changes that have no impact on the programme, such as minor updates to baselined artefacts.
- In the case of a expedition or escalation, an ad hoc Change Board, Advisory Group and/or Working Group may need to be convened to review the CR and provide a recommendation to ensure there is no delay to timelines.



RAID Management Approach





Major Risk Themes – Overview

#	Theme	Description	Mitigation Approach	No.of Items	RAG Status
1	Supplier engagement and mobilisation	Suppliers may not be mobilised early enough to support the forward delivery approach	 CR001 has been approved; IPA recommendation is that all remaining un-mobilised suppliers are fully mobilised (for DBT) by or before 30-Sep-22 If mobilisation is delayed, re-baselining of the plan (and subsequent major milestones) are likely to be delayed Progress on mobilisation will be verified via CR007 impact assessment; PPC activities (including Readiness Assessment 2) are planned to verify status at M3. 	15 Risks 2 Issues	Red
2	Ability to meet the M5 timetable as planned	The amount of work – due to design complexity and / or ability to continue to attract adequate participant engagement – may cause difficulty in reaching an agreement on the design by end of July-22	 Encourage adequate engagement from all Participants – via the provision (during working groups) of a clear timetable for all artefact pathways to ultimate DAG approvals Communicate the plan to resolve open design issues and report on the status, whilst also utilising the design change and design issue processes to treat 'issues' arising as new items to manage against the established design scope Confirm alignment of the Cross-Code Advisory Group (CCAG) / DAG code drafting expectations Ensure that the design assurance activities and findings capture evidence on how the design delivers the TOM In line with IPA recommendations: reconfirmation of the design delivery plan; continual monitoring and identification of areas of risk in the design that require further validation by Programme Participants; tracking of progress against the Tranches to DAG and monthly checkpoints reported to PSG between now and M5 to review progress of design activity against plan and confidence indicators/acceptance criteria. 	11 Risks 2 Issues	Amber
3	Completion and outputs of the Programme Replan activity	There are risks to the completion of the re-plan as expected, and of the timescales (in the re-plan) being longer than the original timetable	 Engage industry volunteer parties to develop a 'strawman' plan in advance of M5 Issue the 'strawman' plan at the earliest opportunity – at M5 – for formal consultation, to provide the most time for Programme Parties to review plan timelines in line developing with their technology strategies and impact assessments Undergo 2 rounds of industry consultation to capture all industry feedback possible before approval through PSG (and Ofgem). 	7 Risks	Amber



Risk Themes – Key Risks and risk management progress

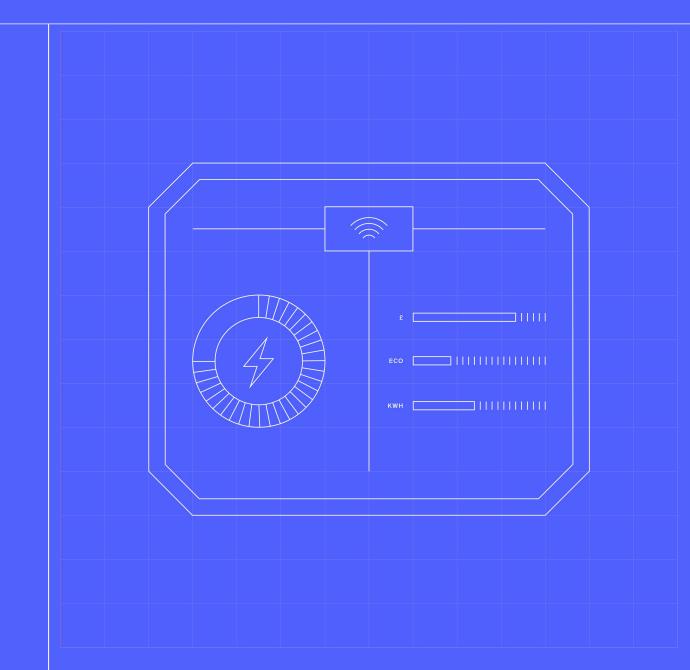
Key									
•	Initial Score								
C	Current Score								
1	Target Score								

For each theme, the top risks have been outlined along with a view of the movement towards the targeted closure score

Risk	Movement No. Days Risk Score Assessment									Target								
ID	Risk Description	Since Last	to	Critic			High			Med				Low		Date Raised	Resolution	Comments
.5		Period	Closure	30 29 28 2	7 26 25	24 23 2	2 21 20	19 18	17 16	15 14 13	12 11	10 9	8 7 6	5 5 4	3 2 1		Date	
	Theme 1: Supplier Engagement and Mobilisation																	
R018	There is a risk that the overlap between the Faster Switching programme and MHHS programme could impact programme parties' ability to deliver against their MHHS requirements.	Reduced	126	D			C								-	08/10/2021	30/09/2022	
R022	There is a risk that that the disruption within the energy retail market will create operational challenges for Supplier organisations over the next 3-6 months which could impact activities on the MHHS programme.	Reduced	218	D	C											29/09/2021	31/12/2022	Faster Switching will reach go-live soon CR001 was approved
R029	There is a risk that programme participants (industry) may not progress in line with the key milestones in the plan	Reduced	157	D	C					1						23/06/2021	31/10/2022	There have been some improvements in engagement Ofgem have continued to press for priority on MHHS
R005	There is a risk that parties do not engage in MHHS due to being focused on their 'business as usual' activities and other industry change programmes.	Reduced	188	D	C					C						08/10/2021	01/12/2022	
R020	There is a risk that the scope of MHHS is not understood by programme participants who are solely considering the settlement-related changes.	No Change	188			0		C							1	10/10/2021	01/12/2022	Governance bodies are gaining traction and momentum
				The	me 2: A	bility to N	Neet the	M5 Tir	metable	as Planne	d							
	There is a risk that Design activities may not be complete by the end of July as planned due to the significant number of comments received, the time constraint of providing participants 4 weeks to review Artefacts across 4 tranches, and review cycles not being permitted to run concurrently.	Increased	63			C C	+	1								14/04/2022	29/07/2022	Currently tranches 2 and 4 being reported Amber
R027	There is a risk that the in-flight design activity may uncover unpredicted issues.	No Change	63						0-0						1	05/10/2021	29/07/2022	
R076	There is a risk that the design-led approach does not get board-level attention to mobilise programme participants until the regulations are laid (M8 rather than M5).	No Change	126					0				C		> 1		05/01/2022	30/09/2022	
R108	There is a risk that the design artefacts do not document sufficient information to provide unambiguous technical detail for all elements.	Reduced	63						0	0						17/03/2022	29/07/2022	SI design assurance continuing
R004	There is a risk that the programme will be delivering a complex technical solution design, which depends on and impacts multiple parties.	No Change	63					0		0				→ 🚺		08/10/2021	29/07/2022	
				Theme 3: 0	Complet	ion and o	utputs o	f the Pi	rogramr	ne Re-plan	activi	ty						
R073	There is a risk that the current 15 month period M5-M9 is not long enough for programme parties.	No Change	Ongoing	(IC									→ 1			05/01/2022	01/11/2022	Will be addressed via the re-planning activity: volunteers now
R025	There is a risk that the 2022 re-baseline extends the timescales significantly.	No Change	158		0		3						→			23/06/2021	01/11/2022	engaged
R069	There is a risk that there may be additional cost implications for Programme Parties due to programme replan / delays or change in direction	No Change	158		0	G								->[02/12/2021	01/11/2022	
R080	There is a risk of delay to re-baselining the programme plan as expected if the industry consultation window has to be extended due to the concurrent Faster Switching programme Go-Live.	No Change	63			0					C		>			21/01/2022	29/07/2022	Faster Switching not now expected to significantly impact the re- baselining activity, based on intended approach
R128	There is a risk that participants do not understand the re-plan activities that are being undertaken by the Programme as some Change Requests have been raised to move individual milestones	No Change	63							0			C		 	13/04/2022	29/07/2022	
R024	There is a risk that the proposed Data Integration Platform (DIP) may not be ready in time for Industry testing resulting in a programme delay	No Change	97				0		C			→				17/05/2021	01/09/2022	DIP delivery plan will become available as provider is contracted



Plans, Assumptions & Dependencies



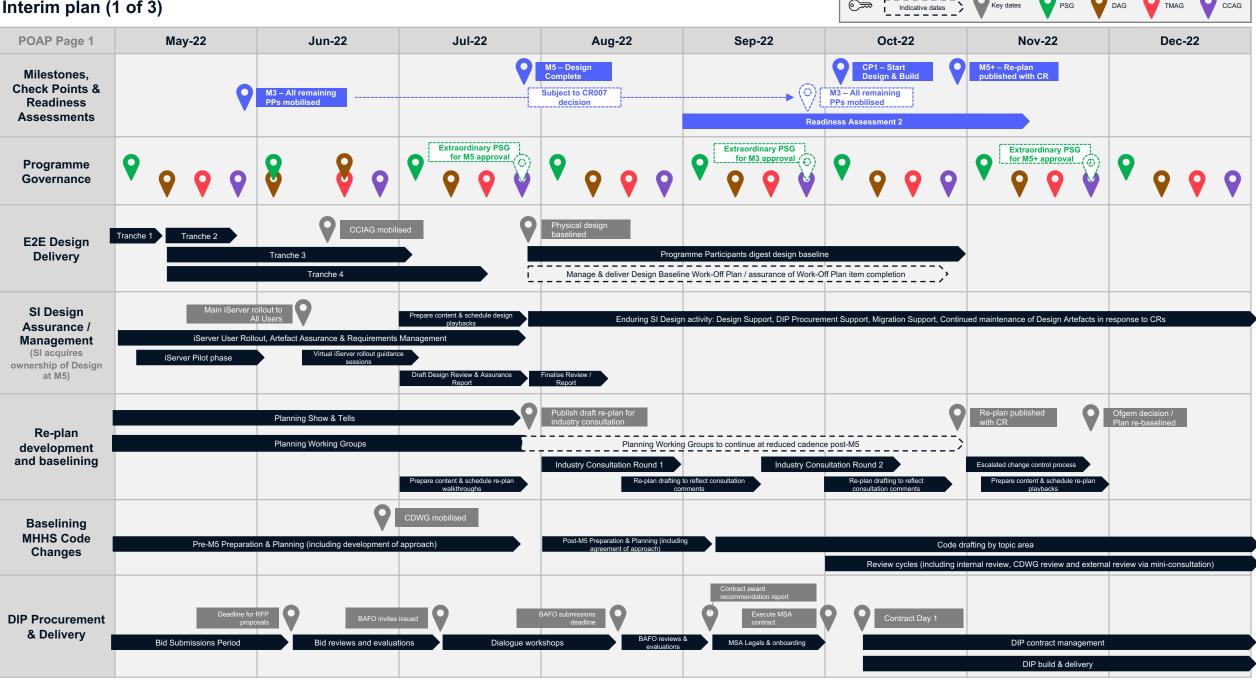


Programme Plan, Assumptions & Dependencies – Major Milestones (Ofgem timetable) and Proposed Control Points (subject to Re-Plan)

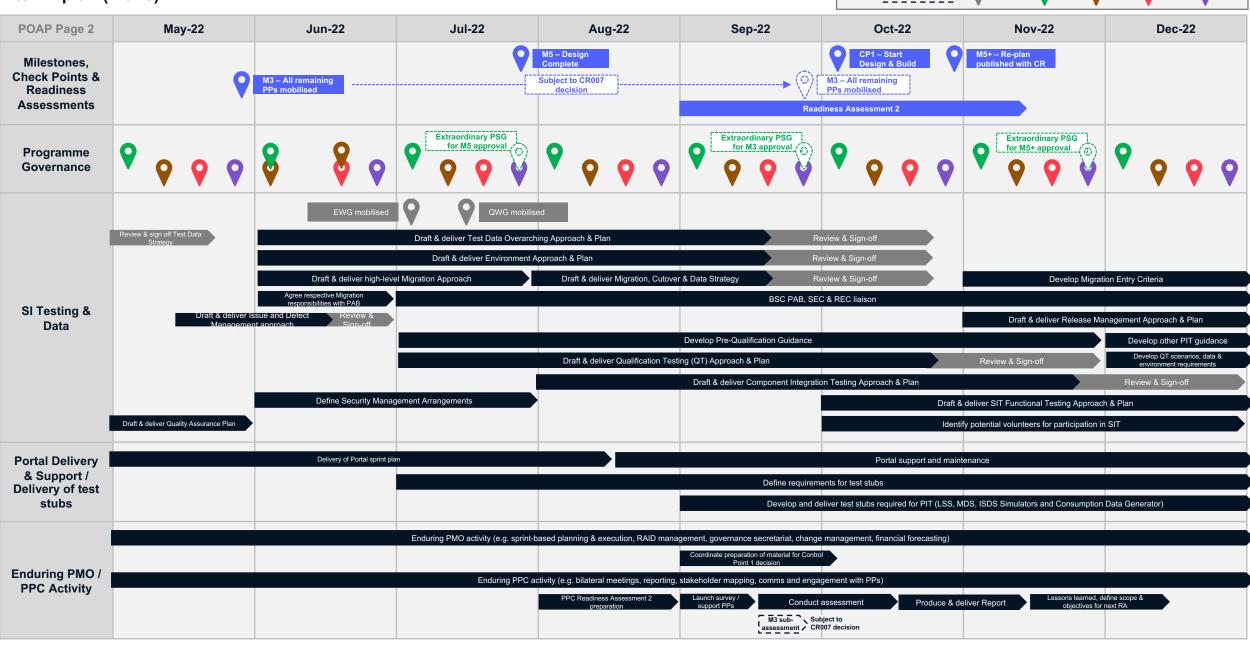
Milestone	Milestone type	Milestone	Baseline Date	Forecast Date	Description
M1	Level 1	FBC Decision	Apr-21	Apr-21	Publication of the Full Business Case, which includes the transition plan and decision on the TOM.
M2		Architecture Working Group (AWG) Recommendation delivered	Jun-21	Jun-21	The AWG will deliver recommendations providing guidance for the solution architecture required to enable the DWG's TOM which will set the framework for subsequent IT system design.
M3		DB Start	Aug-21	Aug-21	The DB (Design and Build) phase will commence in August 2021 with Elexon's Central System, followed by DCC in Feb 2022 and other parties in May 2022.
M4		PMO/PPC/SI/IPA fully functioning	Oct-21	Apr-22	PMO/SI/PPC/IPA have stood up their team and are fully operational with all programme management processes and governance forums established.
M5	Level 1	Physical baseline delivered	Apr-22	Apr-22	In order for the other parties to commence the DBT phase a complete Physical Baseline, aligning both technical and regulatory designs, will be delivered.
		Control Point 1	May-22	Sep-22	Start System Design & Build
		Control Point 2	Jul-23	Jul-23	Start Cross-Industry Integration Testing
M9	Level 1	Cross-Industry Integration Testing Start	Aug-23	TBD	Cross-Industry Integration Testing will commence in August 2023. This test phase involves the central parties (Elexon, DCC, comms network providers and the registration system providers) along with a small number of agents and suppliers.
		Control Point 3	Mar-24	Mar-24	Start Qualification
		Control Point 4	Sep-24	Sep-24	Start Migration
M10		Central systems ready for migrating MPANs	Sep-24	Sep-24	Following completion of the testing phase (excluding TE18 Security Testing), the Central Systems (BSC central systems, registration, DCC and communication systems) will be ready to initiate migration of Meter Point Administration Numbers (MPANs) from the current market roles into the new market roles.
M11	Level 1	Start of 1 year migration for UMS/Advanced	Oct-24	Oct-24	Start of migration window for suppliers to move all UMS and advanced meter points to be settled in the new arrangements.
M12		Start of 1 year migration for Smart/Non-smart	Nov-24	Nov-24	Start of migration window for suppliers to move all smart and non-smart meter points to be settled in the new arrangements.
M13		Load Shaping Service switched on	Nov-24	Nov-24	The LSS will be switched on after a period used to gather and validate settlement period level data from the smart meter data service.
		Control Point 5	Jan-25	Jan-25	Start Accepting all MPANs Under New TOM
M14	Level 1	All suppliers must be able to accept MPANs under the new TOM (one way gate)	Feb-25	Feb-25	Deadline by which all suppliers must have the systems and services in place to accept MPANs under the new TOM. From this point MPANs cannot be moved back into NHH regime on change of supplier.
M15	Level 1	Full transition complete	Oct-25	Oct-25	Completion of implementation activities including 1 year migration.
		Control Point 6	Oct-25	Oct-25	Cut Over to New Settlement Timetable
M16	Level 1	Cut over to new settlement timetable	Nov-25	Nov-25	The date of the cut over to the new settlement timetable will occur after the end of migration. The decision on when the settlement timetable should be reduced should be taken nearer the time, and on market monitoring against trigger points. We think that industry should ensure that the new settlement timetable is introduced as soon as practical after the end of migration, but if this is longer than 4 months after the end of migration then this decision should be brought to Ofgem.
M6	Level 1	Code change and detailed design recommendations delivered	Apr-22	Apr-23	The CCAG will deliver the recommendations aimed at addressing any outstanding areas of the DWG's TOM design and will deliver the recommendations for the changes to the Industry Codes and subsidiary documents necessary to enable the TOM.
M7		Smart Meters Act powers enabled	May-22	May-23	Time limited (5 year) powers in Primary Legislation for Ofgem to make changes to Industry Codes for the purposes of MHHS are activated.
M8		Code changes delivered	Nov-22	TBD	All changes to regulation (licenses, industry codes (including BSC, SEC, REC, DCUSA) have been made setting out the regulatory baseline.



Interim plan (1 of 3)



Interim plan (2 of 3)



Indicative dates

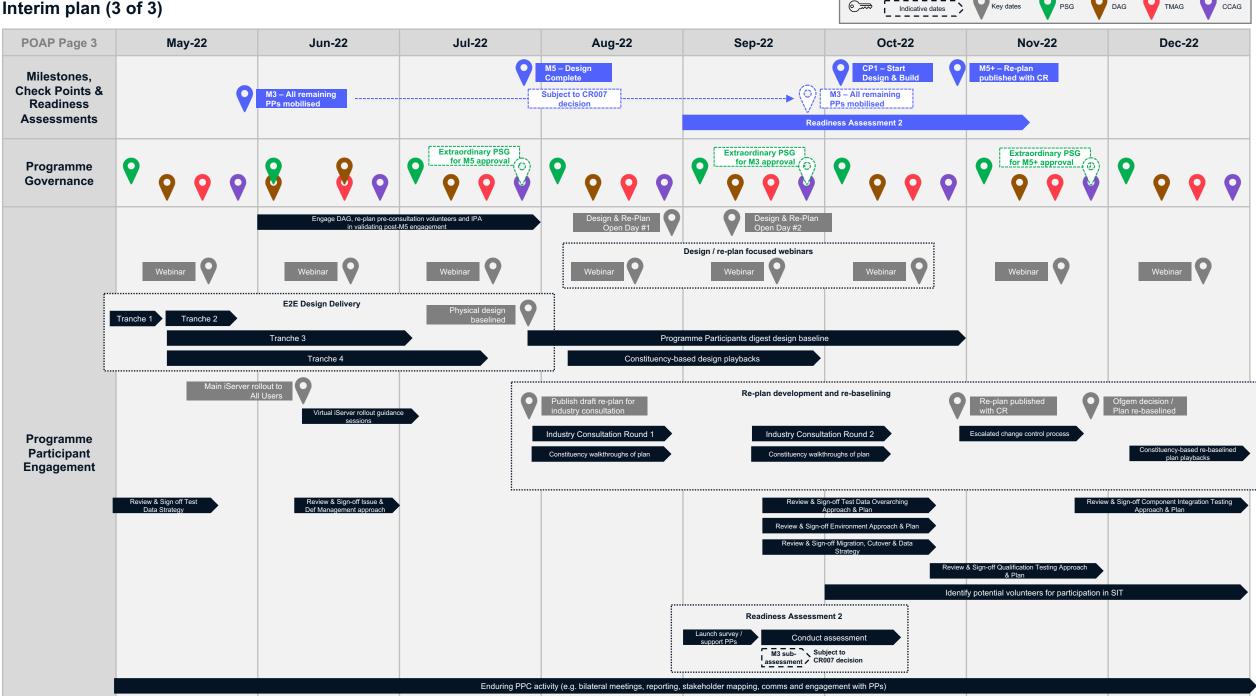
PSG

DAG

TMAG

CCAG

Interim plan (3 of 3)



Programme Control Points

Control Points are identified in the Programme Plan because:

- At points between each major programme delivery phase, there should be an explicit decision about whether to proceed (or not)
- This decision is based primarily on progress so far, the amount of existing uncertainty and the forward plan
- This is best programme management delivery practice

Control Point reviews are chaired by the Programme Director and should cover:

- 1. How well delivery milestones have been met, and whether there are any significant outstanding actions from previous milestone approvals
- 2. Predicted status of forward delivery with focus on critical paths (threads) to future Control Points and milestones on those paths
- 3. Predicted progression towards expected achievement of programme outcomes
- 4. How many change requests (CRs) are open and what they tell us about the stability of the solution and the delivery plan
- 5. How much aggregate and cumulative risk the programme is running with, and whether it is acceptable and manageable
- 6. How 'fit for purpose' the forward delivery plan is, including an assessment of the level of built-in contingency
- 7. There should also be a review of the programme strategies to ensure they are still suitable (those articulated in the Programme Initiation Document)

Control Point reviews are not checkpoints; they are decision gates

- The review output should be a decision to continue with the programme, or to pause (or stop)
- Proceeding with the programme may well be a decision that comes with conditions (well-defined and articulated actions)



Programme Planning Principles

Transparent process

The planning approach and conventions will be clearly documented and made readily available and easy to understand for programme participants.

Logical approach

Each individual component of the plan will follow a well thought-out and easy-to-understand sequencing that leads to pre-defined results. A left-to-right, as well as right-to-left planning approach will be adopted to ensure consideration is given to what 'needs' to be done to meet the objectives of the programme, rather than what 'can' be done in the time available.

Control-point and milestone based

The plan will contain rigorous control-point gates to dictate a critical path, as well as a levelled-approach to milestones. Solid data submitted by programme parties will be used to assess their readiness to pass through a gate; targeted support will be provided to any programme party with difficulties achieving the milestone rather than lowering the bar of acceptance.

Outcome-driven

The plan will reflect a roadmap made up of a series of well-connected and purposeful deliverables with clear direction towards meeting the programme objectives.

Early definition of planning levels, governance routes and associated artefacts

Each workstream/initiative within the programme will have a clear list of outputs/deliverables, with milestone plans and dates for when elements are to be delivered. From the outset, planning levels will be clearly defined with a structure to show how different layers within the programme will interact and take ownership of milestones in accordance with these levels.

Realistic and achievable

To ensure programme participants are engaged with the programme plan and do not become despondent, the plan should be ambitious, but also attainable.



Programme Initial Assumptions & Dependencies

General delivery-related assumptions

- Right level of engagement for design activities to deliver a robust and comprehensive design at M5
- · There will be no challenge to the procurement of the DIP
- 2 rounds of consultation on the industry re-plan will be sufficient to baseline the new version
- Sufficient number of suppliers ready to participate in the phases of testing and migration
- Design will not be changed by any changes to Code(s)
- · Programme resources required in engaging with the IPA do not exceed plan
- Faster Switching activities will not affect the activities of MHHS programme

Specific design and technical assumptions

- · Most users will have Microsoft Office applications installed via their own company licenses
- Programme Participants accessing the portal will provide secure devices to their staff managed using an application such as Microsoft InTune
- LSS, MDS, VAS, SDS, ARP and UMSDS will use the Core Platform for communications between themselves. Communications with the other systems will be by the existing methods – MPRS via D-flows, CSS via webhooks and DCC/DSP using DUIS commands over the DCC Gateway
- In Pre-Integration Testing, Suppliers and Supplier Agents will provide their own simulators to act as input from MSS, MSA, UMSO, MPRS and CSS
- In Infrastructure Testing, we will make use of the tool(s) provided by the Core Platform service provider
- The Core Platform provider will provide their own simulators for testing.

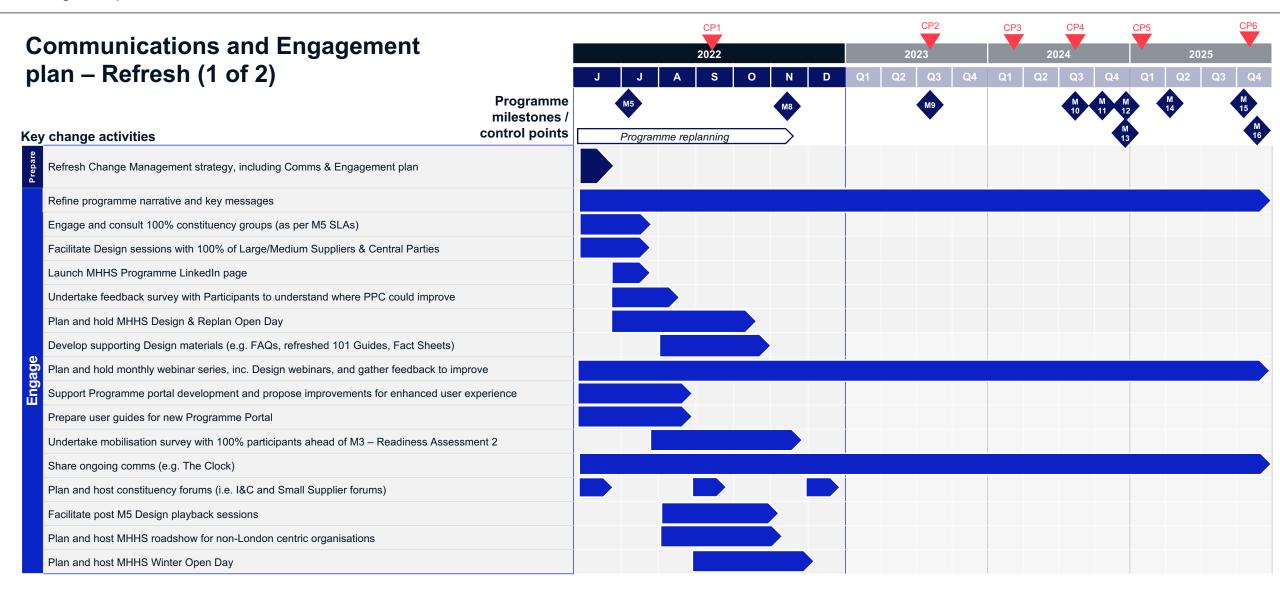
Dependencies or inter-dependencies between:

- BSC or related SEC/REC Changes/modifications, and MHHS
- Central Party systems readiness (Helix, DCC), and MHHS key milestones (M9, M10 etc.)
- Data integration platform procurement and development, and MHHS key milestones (M9, M10, etc.)
- Readiness of Programme Participants' systems, processes and interfaces, and commencement of related test and migration phases
- · DCC infrastructure, and MHHS performance
- Ability of Elexon old / new systems to work together, and MHHS performance
- Programme Participants' data preparation, and MHHS readiness for migration
- Active participation of all Programme Participants, and completion of the MHHS Design and the programme plan re-baseline

Wider business-case or external dependencies:

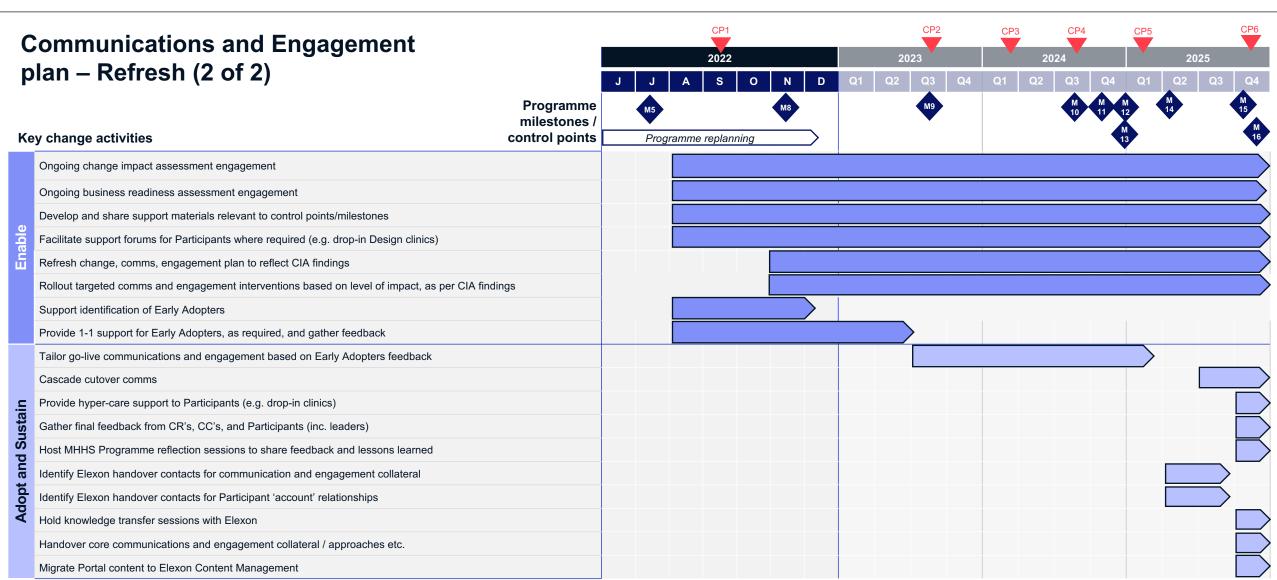
- · Smart metering roll out
- The Switching Programme
- · Future retail regulation
- The Targeted Charging Review
- · The Access and Forward-looking Charging project
- · Smart Meters Act powers enabled
- · Code Governance Review
- DCC License Review







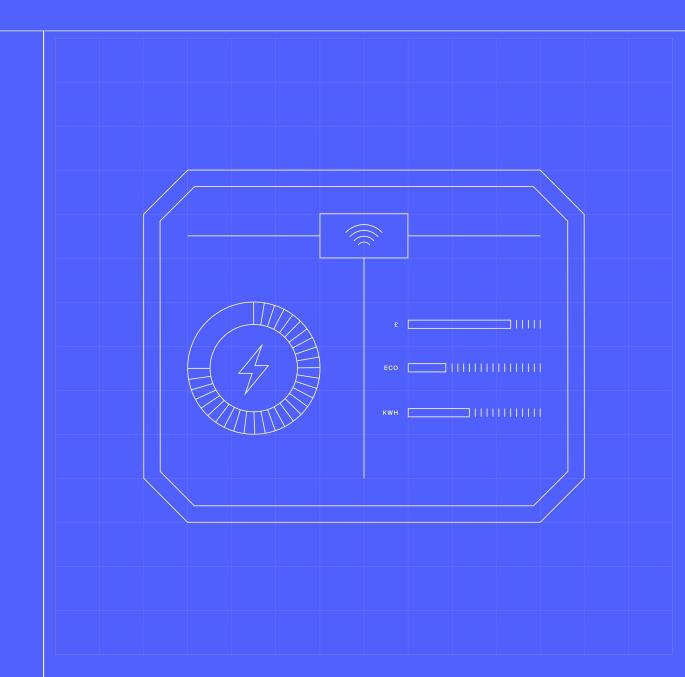
Long term plan





Support for late Programme Participants will continue into Jan / Feb 2026, as required

Budget





Draft MHHS Budget

The MHHS budget set for delivering the MHHS Implementation Manager role in 2022/23 is maintained at our published budget level for 2022/23 of £19.5m – as per 2021 MHHS Budget consultation.

There are uncertainties at this point due to ongoing procurement activities.

- The Forecast spend for 2021/22 is £8.5M with £4M over recovery returned to suppliers
- Budget for 2022/23 forecasted at £19.5M (same as original budget)
- Total Programme costs still on track for £90M including contingency
- Still a some degree of uncertainty around costs for IPA, EDA and outcome of the re-plan next year
- Programme average monthly run costs circa. £1.2M i.e. cost of delay per month.

CY forecast	Y1	Y2	Y3	Y4	
21-22	22-23	23-24	24-25	25-26	Total
8,451,931	19,471,486	22,712,303	21,132,543	18,231,737	90,000,000



Public