



**MHHS
PROGRAMME**
Industry-led, Elexon facilitated

Programme Steering Group #17

01 February 2023

Version 1.1

MHHS-DEL883

Document Classification: Public

Agenda

#	Item	Objective	Type	Lead	Time	Page
1	Welcome			Chair	10:00-10:05 5 mins	
2	Minutes and actions review	Approve minutes. Update on actions, closing where appropriate	Decision	Chair and Secretariat	10:05-10:10 5 mins	3
3	Sponsor update	Hear key messages from the Programme Sponsor	Information	Jenny Boothe	10:10-10:15 5 mins	5
4	Avanade introduction	Introduce the DIP provider and DBT plan	Information	Chris Harden, Avanade	10:15-10:30 15 mins	7
5	Status updates	Update on progress of: <ul style="list-style-type: none"> The M5 Work-Off Plan Verbal update on Round 3 of consultation on the Programme plan and forward look at next steps 	Information	Warren Fulton Keith Clark	10:30-10:45 15 mins	15
6	Benefits Realisation Plan	Approve the updated version of the Benefits Realisation Plan (BRP)	Decision	Jason Brogden	10:45-10:55 10 mins	23
7	Change Control	<ul style="list-style-type: none"> CR013: Make a decision whether to approve or reject CR013 - Commercial Impacts Change Request CR015: Decision on whether to raise CR015 to Impact Assessment CR016: Change Board has approved housekeeping change 	Decision	Gareth Evans, Graham Wood, Jason Brogden	10:55-11:10 15 mins	25
8	Working Group engagement	Review attendance at MHHS Working Groups and discuss ways to improve engagement from under-represented parts of industry	Discussion	PMO	11:10-11:20 10 mins	38
9	Delivery dashboards	Take questions from PSG members on delivery dashboard content	Information	Chair	11:20-11:30 10 mins	40
	Summary and next steps	Summarise actions and decisions. Look ahead to next meeting	Information	Chair and Secretariat	11:30-11:35 5 mins	61
	Appendix	Working group engagement analysis				63
	Attachments	<ul style="list-style-type: none"> Benefits Realisation Plan v0.7 CR015 CR016 				

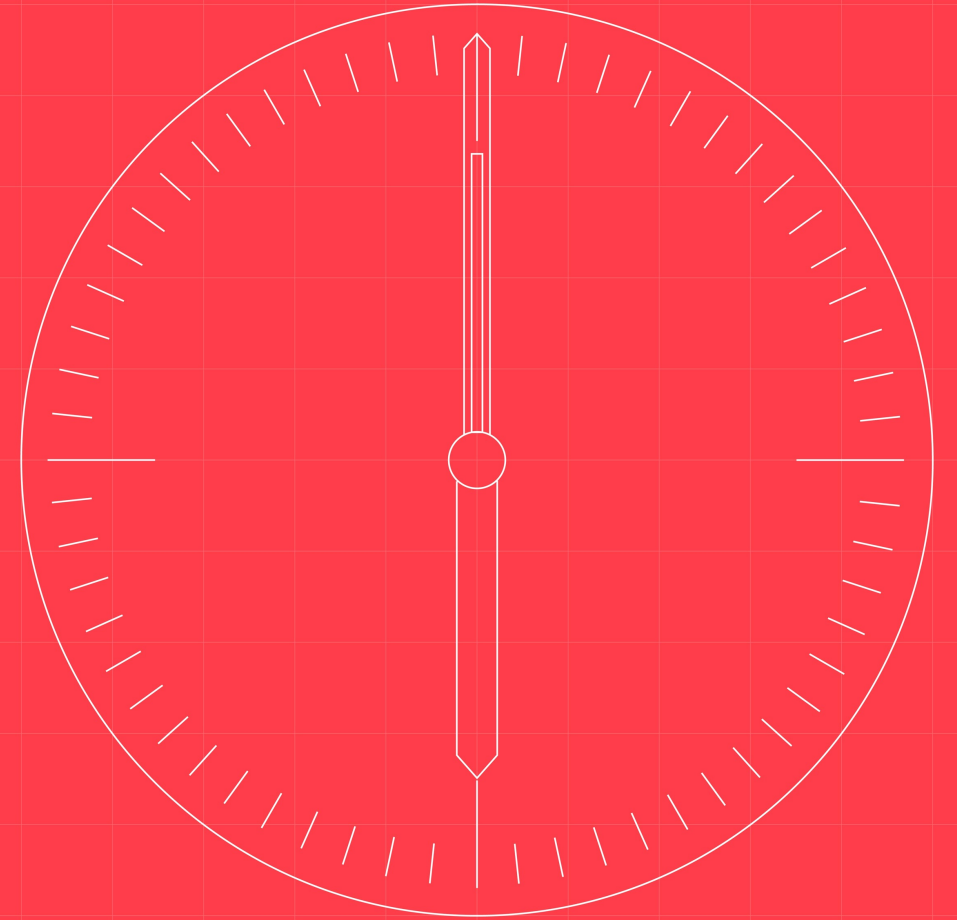


Minutes and actions review

DECISION: Approve minutes. Update on actions, closing where appropriate

Chair and Secretariat

5 mins



Minutes and actions review

1. Approval of minutes from last PSG
2. Open actions and actions from last PSG

Ref	Created	Action	Owner	Due	Status	Latest Update
PSG08-05	08/06/22	Address comments received on the Benefits Realisation Plan (for example consequential impacts/dis-benefits and providing a more quantifiable measure under the MPAN success criteria)	Programme (Jason Brogden)	To be aligned to next control point	Recommend closed	Agenda item for February PSG
PSG13-05	05/10/22	Set up a session to discuss the requirements (e.g. ToR) for an MHHS forum to discuss the commercial impacts on settlement from the MHHS Programme (taking learnings from Nexus). Session to include MHHSP members and PSG constituency reps as required	Programme PMO	14/11/22	Recommend closed	CR013 for decision at February PSG
PSG14-10	02/11/22	Support the Programme to identify Large, Small and I&C Supplier representatives for TMAG	Relevant Supplier Representatives	07/12/22	Ongoing	Large Supplier Representative seat resolved. Further action required for Small and I&C Suppliers
PSG15-01	07/12/22	Progress work on customer segments in migration at the Migration Design Subgroup (MDSG)	Programme (Jason Brogden)	01/03/23	Ongoing	Incorporated in Migration Design activity and expected to be brought to the MDSG in February. Suggest kept open until there are conclusions.
PSG16-01	11/01/23	Discuss steps for filling TMAG Large Supplier Representative vacancy	Graham Wood, Chris Harden	01/02/23	Recommend closed	Way forward reached for new TMAG Large Supplier Representative
PSG16-02	11/01/23	Update M5 Work-Off Plan Change Log with ISD and Operational Choreography document changes	Programme design team (Warren Fulton)	18/02/23	Recommend closed	M5 Work-Off Plan Change Log updated
PSG16-03	11/01/23	Share communication in the Clock to remind participants who their constituency reps are and what the constituency rep role is	Programme PMO	01/02/23	Recommend closed	Communication to be shared in Clock 18/01
PSG16-04	11/01/23	Provide constituency reps with the contacts for the organisations within their constituency	Programme PPC	01/02/23	Recommend closed	Contact details provided to Constituency Representatives
PSG16-05	11/01/23	Speak to RECCo, Elexon and ESO to compare OSMs to the MHHS Programme's contact list	Programme PPC	01/02/23	Open - ongoing	PPC are in discussion with RECCo, Elexon and ESO
PSG16-06	11/01/23	Add Work-Off Plan and migration design task items to the Interim Plan dashboard	Programme PMO	01/02/23	Recommend closed	Addressed in February PSG dashboards

Sponsor update

INFORMATION: Hear key messages from the Programme Sponsor

Ofgem Sponsor

5 mins

Sponsor's message

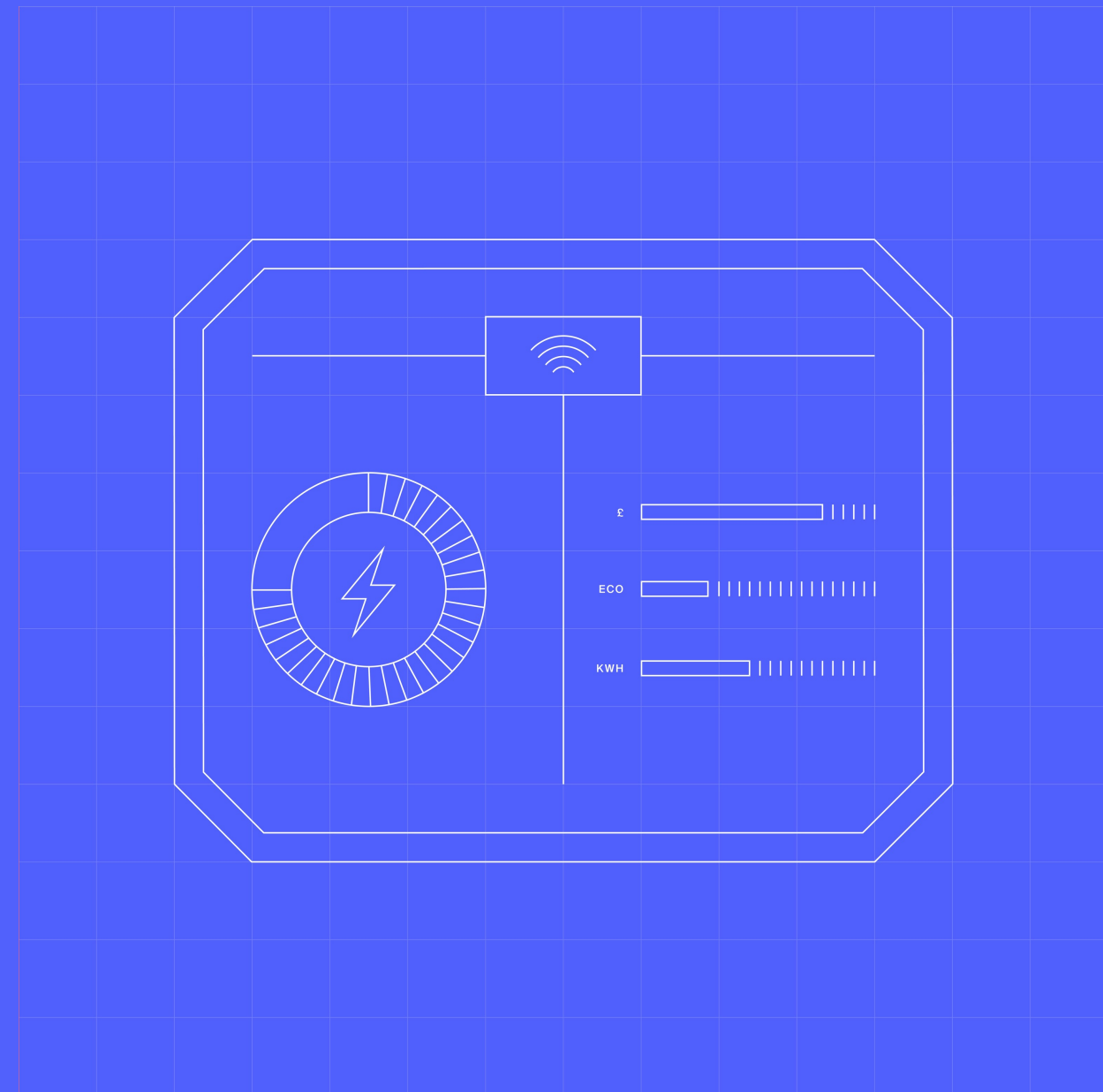
- BEIS continue to take a close interest given the importance of MHHS for net zero. It is important to keep the essential impact of this programme in the forefront of our minds.
- Established the HHs Sponsor Group with membership from BEIS, HMT, Ofgem and the HHS SRO.
- Welcome the progress on the Design WoP activities but note that CRs may be raised to address a few items. Where CRs are pursued their outcome need to be federated and appropriately integrated into the re-plan to provide certainty to PPs.
- Keen for PPs to continue their DBT activities and to engage with the PPC if progress is delayed to work through mitigations, so it is up to you to ensure you are making the necessary progress.
- Thank you to everyone who actively participated in the re-plan playback sessions. These sessions provided PPs with the opportunity to get clarification on aspects of the re-plan.
- Ofgem is keen that the plan we approve is credible and has PP buy-in, therefore we are keen that PPs use every opportunity to engage with the Programme during the plan development.
- Strongly encourage PPs to volunteer to be part of the Minimum Viable Cohort (MVC) if they can. This provides real opportunities for those who can benefit from them and help to de-risk downstream testing phases.
- Focus remains clearly on realising benefits from the earliest practicable date. Important that all PPs support this in any way they can.

Avanade introduction

INFORMATION: Introduce the DIP provider and DBT plan

Chris Harden, Avanade

15 mins



Avanade Overview for Elexon

February 2023



We're Avanade

Avanade is the leading provider of innovative digital and cloud services, business solutions and design-led experiences delivered through the power of people and the Microsoft ecosystem. Founded in 2000.

Our purpose is to make a genuine human impact.

60,000+

skilled and diverse professionals - -
32% of whom are women

40,000

Microsoft
Certificates

10,000

Projects with
3,000+ global clients since inception

1200+

current client partners worldwide—typically mid to large-scale enterprises and government agencies

46%

of Global 500 companies as clients

80

Locations across
34 countries

23

Advanced
Technology Centers across 5 continents in 11 countries

15

Center of Excellence with specialisations in Cloud, Data & AI, Machine Learning, XD and more

7

specialised studios in digital, cloud, agile and experience design

Meet The Team



Mark Corley
Exec Sponsor

Head of Energy & Utilities at Avanade with over 20 years of experience in architecting large-scale, mission-critical systems on the Microsoft platform.

Has led multiple large Azure implementations in the Utilities & Energy Sector.



Paul Daniels
Delivery Lead

Delivery Management Director with over 20 years of experience leading complex technology programs and projects, primarily in the energy sector. Experience includes Azure Migration and Data Modernization.

Leads Avanade's DIPSP team, working in partnership with MHHS to deliver sustainable benefits for the energy industry and its consumers.



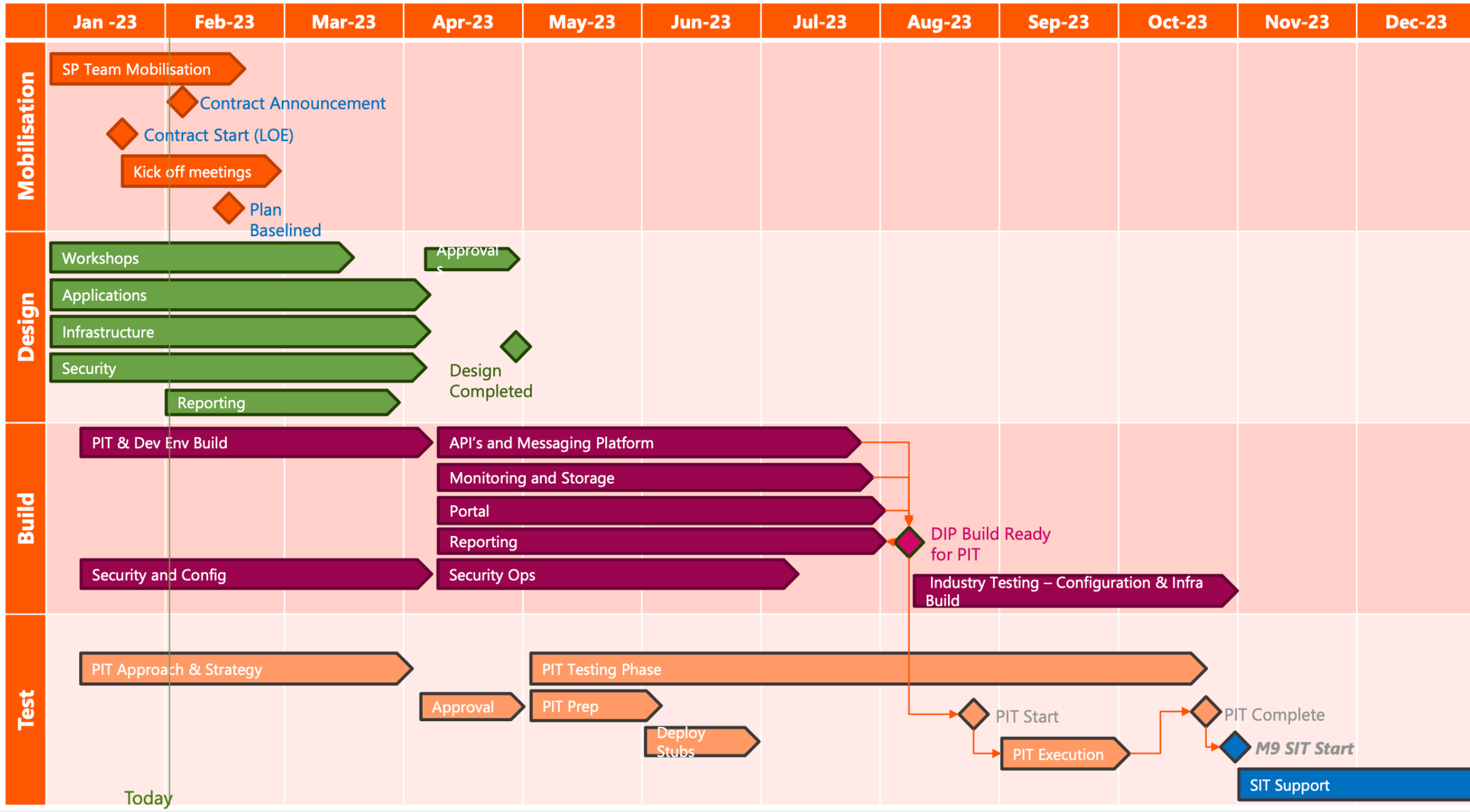
Paul Brown
Lead Architect

Lead Architect with 30 years of experience in technology and application transformation, skilled in cloud-based transformations (Azure, AWS, and private cloud) and recent experience in the Energy sector on key programmes.

Strong focus on business and technical outcomes across various industries.

Project Timeline

DIP DBTI POAP (DRAFT)



Technology Approach

PKI Certificate Lifecycle Management Services provided by a global PKI provider, and will be integrated into the MHHS DIP Platform to provide a seamless and secure onboarding processes

Highly Secure Platform supported by Azure Sentinel-based Security Managed Services, Cloud Security Posture Management (CSPM), Azure Active Director, with SAST/DAST/SCA security testing.

Solution will be built and deployed using automated, DevOps pipelines, Infrastructure as Code and Azure DevOps (ADO) for Infrastructure/Security with ADO for Application Deployment, supported by automated testing



Makes use of Azure Platform as a Service (PaaS) to provide a highly-efficient solution for Core Messaging and Infrastructure Services

Provides a highly scalable solution capable of supporting planned demand, unplanned usage patterns and significant growth in message volumes

Highly resilient, dual-region solution (Azure UK South/UK West) - no single point of failure and the ability to recover effectively from any outage



Do what matters

Thank you

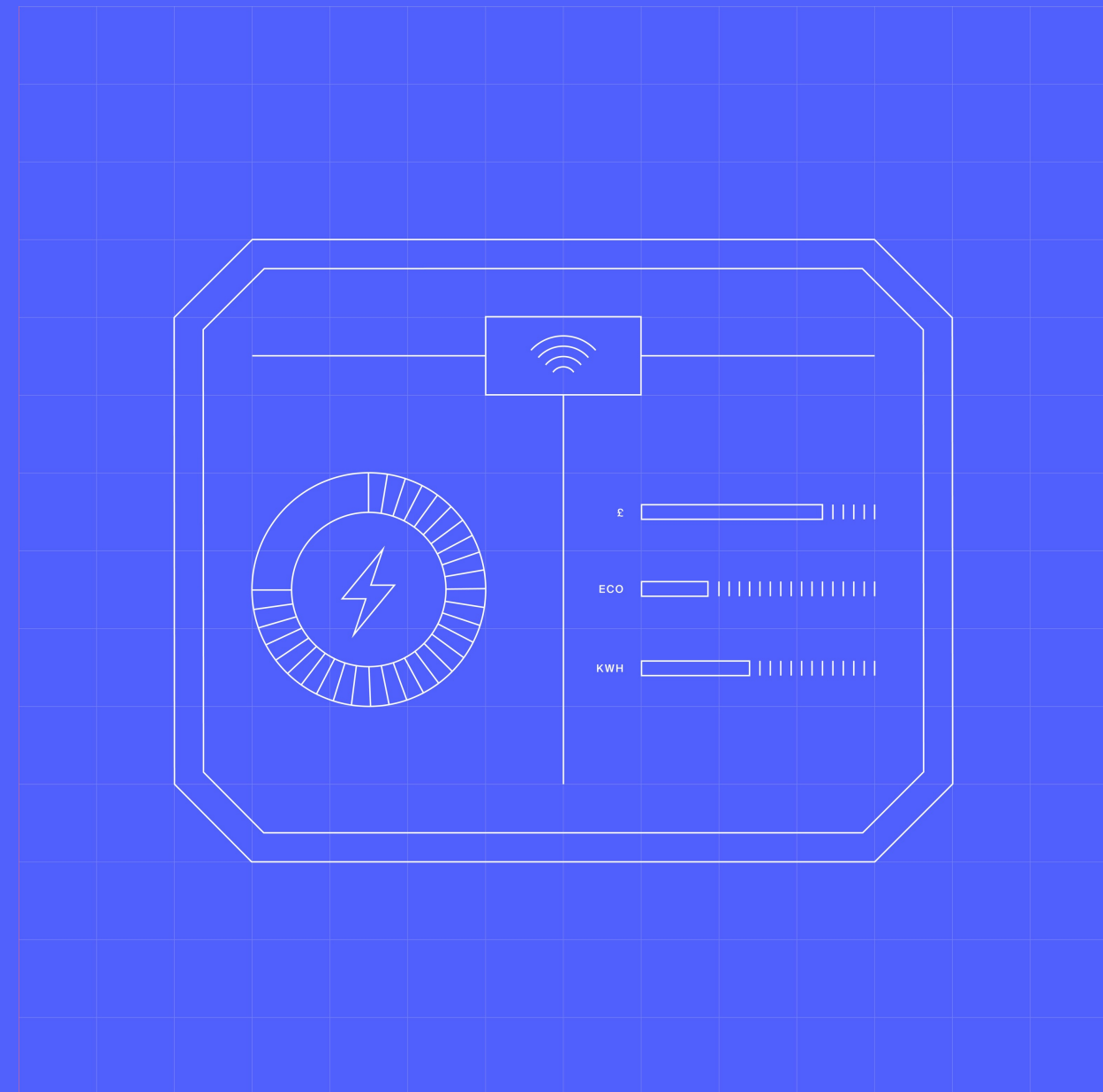
Status updates

INFORMATION: Update on progress of:

- The M5 Work-Off Plan
- Verbal update on Round 3 of consultation on the Programme plan and forward look at next steps

Programme

15 mins



Background

The Design Advisory Group (DAG) requested 70 Work-Off items to be addressed in three months as a condition of the M5 Design Baseline decision in October 2022.

Work-off item status:

The MHHS Design team has addressed all 70 Work-Off items by working with industry via offline reviews and eight consultation meetings (22 hours) which were attended on average by 70+ participants. The determination for which matters were discussed in the working groups was based upon the wider impact across industry. This was agreed with DAG in order to expedite the process to ensure that the Work Off Plan could be completed in the required timescales.

Work-Off item status

- Propose Closed- Artefact(s) Updated 47
- Propose Closed- No Change to Baseline Artefacts 11
- Propose Closed- Changes Not Incorporated- Rationale Provided 11
- Propose Closed- Managed as Change Request 2
- Propose Closed- Moved to Code Drafting 2

(Note – The total work-off items increased to 73 because D-034 was split into 4 separate items)

MHHS Design Work-Off Summary- 2

Artefact assurance review:

- The Design Artefacts which were updated as a result of the Work-Off items were issued for Participant assurance review on 16/ 19 December 2022, and comments were received by 13 January 2023
- We received 329 comments, with 102 related specifically to items on the Work Off Plan. The remaining 227 comments were not in scope of the Work-Off review and were comments raised on non-Work-Off items that should have been raised in the E2E review ahead of M5. However, the MHHS Design team reviewed the comments and, where appropriate, reflected minor cosmetic changes in the revised documents or provided clarification responses. The remaining non-Work-Off items will be considered as part of the MHHS Change Control process - these do not have a material impact on the Design and will be dealt as clarification/elaboration/minor correction CRs.

Assurance comment responses

The Work-Off plan related comments were reviewed and addressed as follows:

- Cosmetic Change 52
- Clarification 31
- Rejected 19

The Design Artefacts were updated in accordance with the cosmetic changes, and the clarifications, rationale for rejections and updated Artefacts were re-issued to participants on 23 January 2023, in preparation for the DAG baseline decision.

Rejection Categories:

- Change contrary to position agreed by Working Group 3
- Not aligned to agreed Design Principles 6
- Not in scope of MHHS 9
- Low Materiality 1

Engagement stats

- The number of organisations engaged with the Work-Off plan assurance review was considerably less than for the M5 end-to-end design review (20 organisations for the end-to-end review compared to 7 organisations for the Work-Off items) – see chart 1
- The number of Large Supplier, Independent Agent, and Software Provider organisations that submitted comments has reduced compared to the end-to-end review. The number of Central Parties and iDNO’s remained consistent, and no Small suppliers or DNO’s submitted work-off plan comments – see chart 1
- The number of Work-Off plan comments received is considerably less than the end-to-end review (3182 for end-to-end compared to 102 for Work-Off) particularly for Independent Agents, Software Providers and Large Suppliers which suggests a high level of confidence in the design for organisations that are on more advanced in their delivery journey – see chart 2
- There is also an observation that comments are tending to shift towards code drafting (which do not impact the design artefacts)

CHART 1

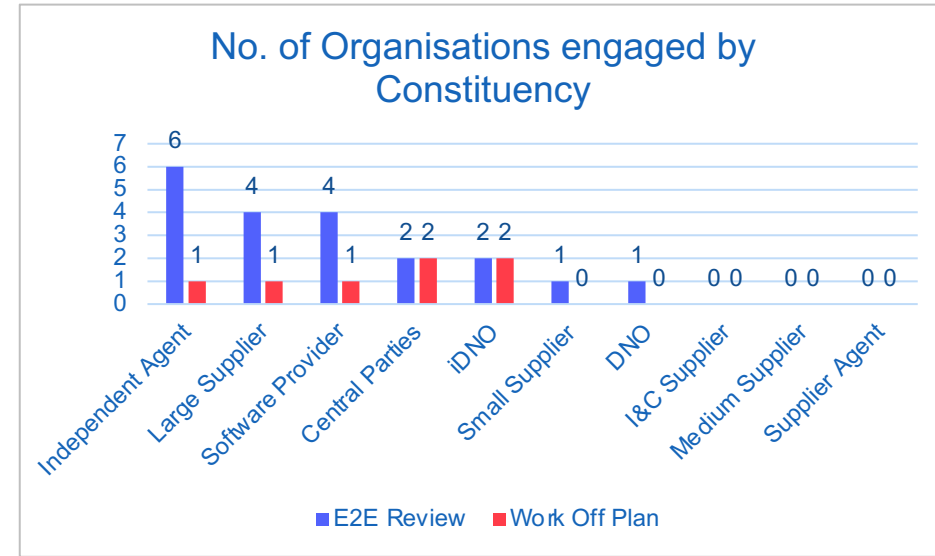
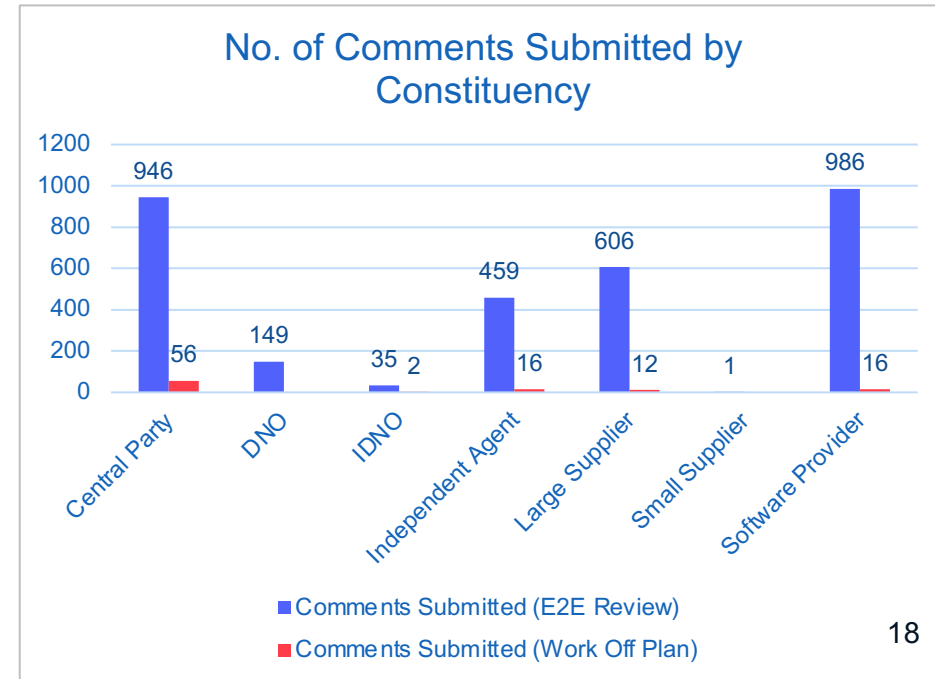


CHART 2



MHHS Design Work-Off - Observations

The purpose of the MHHS Design development phase was to develop a design that was robust and stable to enable Participants to start DBT (design, build, test) and to support code drafting.

The Design was baselined at M5 and many Participants have started their DBT activities. Fewer number of participants engaged in the Work-Off plan review and the low volume of comments received indicates a level of comfort that the design works.

With many participants now undertaking their DBT activities it is imperative that the design development phase is concluded and the design moves into the Programme Change Control process. This is because any further design development work may result in rework for participants. Indeed, the large number of non-Work-Off comments received during this review indicates the risk that any further design change must be governed by Programme Change Control governance.

From a MHHS Programme perspective, the stabilising of the Design is on the critical path to realising Consumer benefits, and any proposed delay to re-baselining the Artefacts and concluding the Design development phase must be of a materiality that justifies a delay to consumer benefits and increased industry cost.

MHHS Design - Recommendation

The MHHS Programme believes that there is no material reason why the Design Development phase cannot be concluded and the Design, in its entirety, be baselined and entered into Change Control.

The engagement findings from the Work-Off phase indicates that industry at large are comfortable with the Design as it stands. The only matters which have been escalated to DAG have been 'D-012-E7/E10 differential settlement' and 'D-013-Registration Service Operating Hours', and these are being handled as Change Requests to afford the constituencies a fair, transparent and objective way to present their required changes from the baseline position.

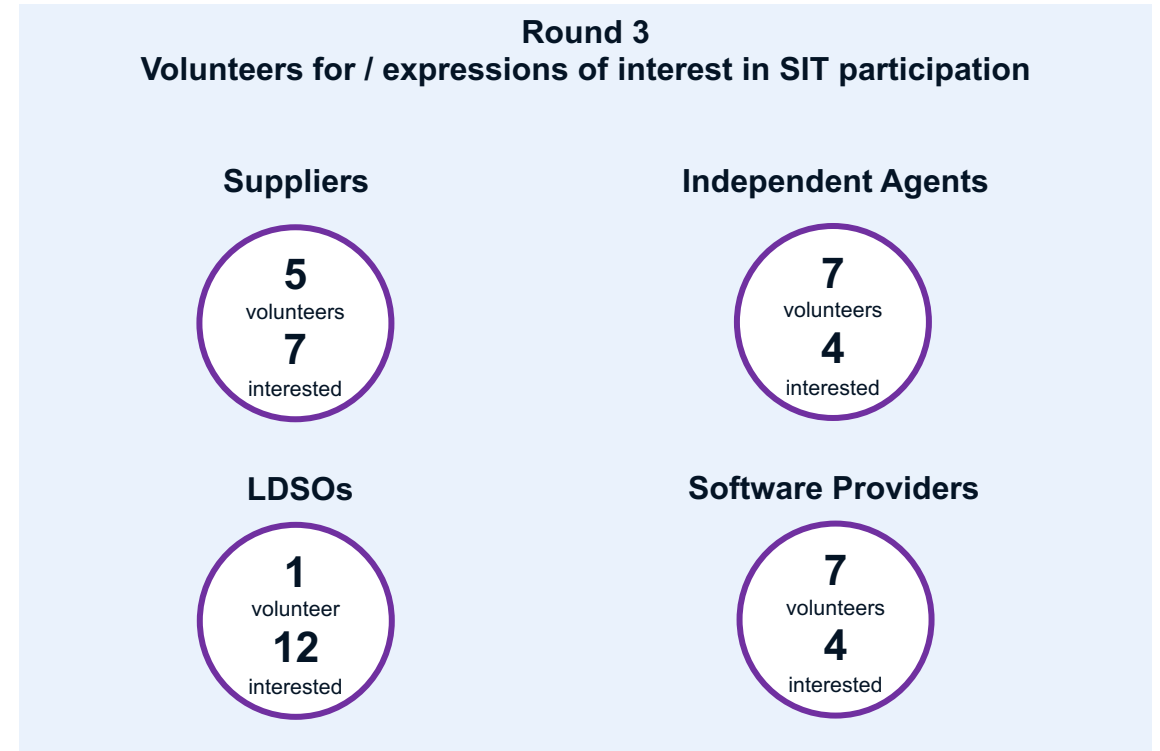
The Programme proposes that the Design development phase is concluded, and any further change, albeit cosmetic or material, be handled by the Change Control governance.

The Programme would also like to thank all participants, and DAG, for their engagement and support.

SIT Status – based on 75 Round 3 responses (as at 17:00 31-Jan-23)

Core Capability Providers

Programme Participant	Status	Comment
Elxon (Helix)	Amber	Currently some rework being conducted
DIP	Green	DIP Service Provider in place and delivery plan aligned to Round 3 proposed CIT start date
LDSOs / (St Clements)	Amber	MPRS DBT plan requires review to optimise delivery, still significant CIT / SIT readiness risk. Some reliance on adapters for CIT – these are being procured by LDSOs
RECCo	Amber	DBT plans for EES on track, some risks for CSS but also currently expected to be ready for CIT
DCC	Green	MP162 changes and capacity upgrades on track
ElectraLink	tbc	Review meeting scheduled for 03-Feb-23
LDP	Green	SI has issued a high-level SIT scoping document for SITWG review. SI test scenario analysis and drafting is being progressed in parallel



Programme migration (Go-Live process) only starts when:

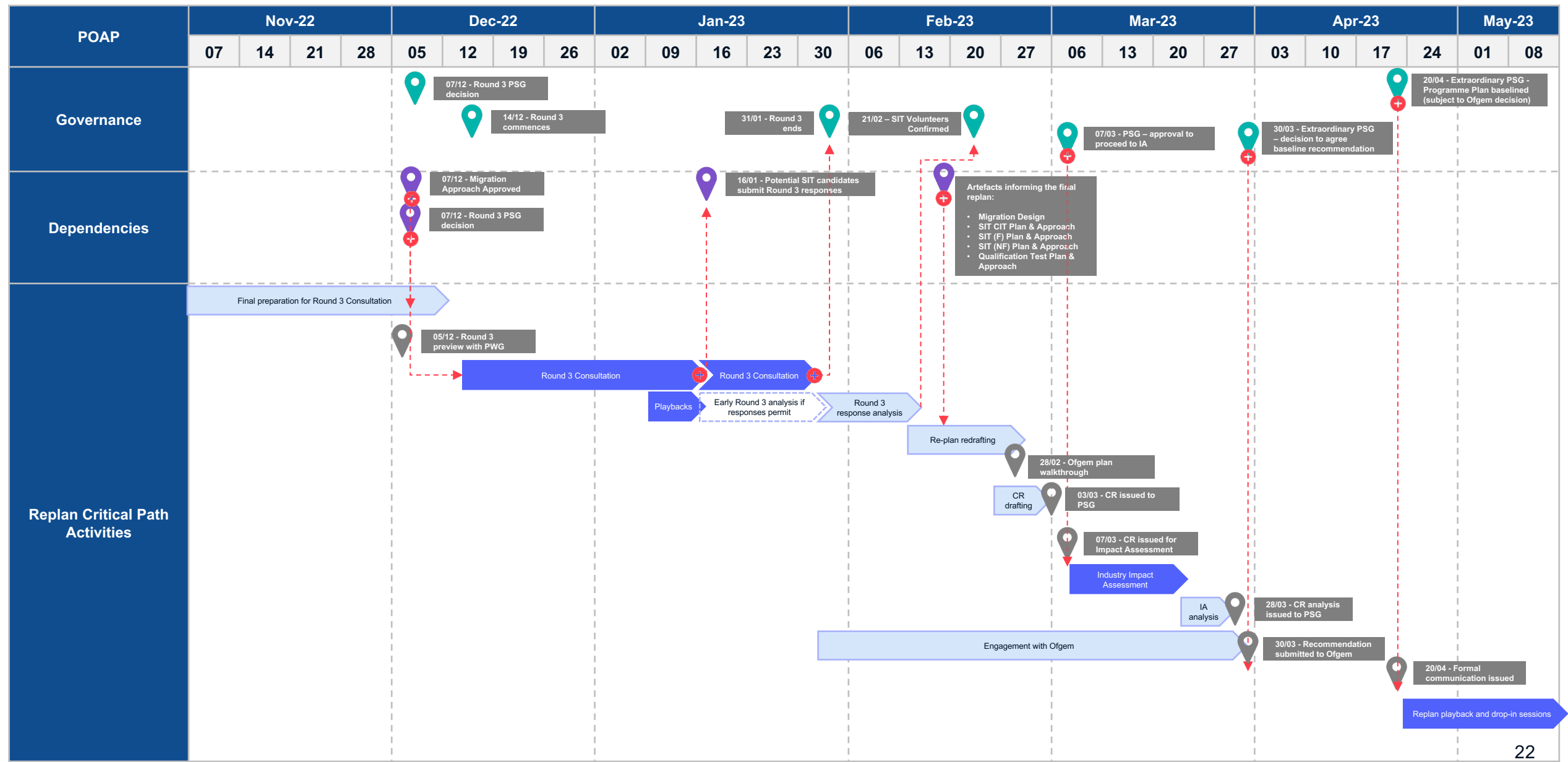
LDSO 'ecosystems' are ready	<i>Each and every DNO and iDNO and their related service providers must be ready by M10, by completing either SIT or non-SIT LDSO testing</i>
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and

Some early adopter 'go-live cohorts' are ready	<i>A supplier will be ready for early migration (in a market segment) when they and their related Service Providers have completed SIT</i>
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Reminder: Programme Re-plan POAP

KEY: Key dates PP Engagement with MHSP Dependency between tasks

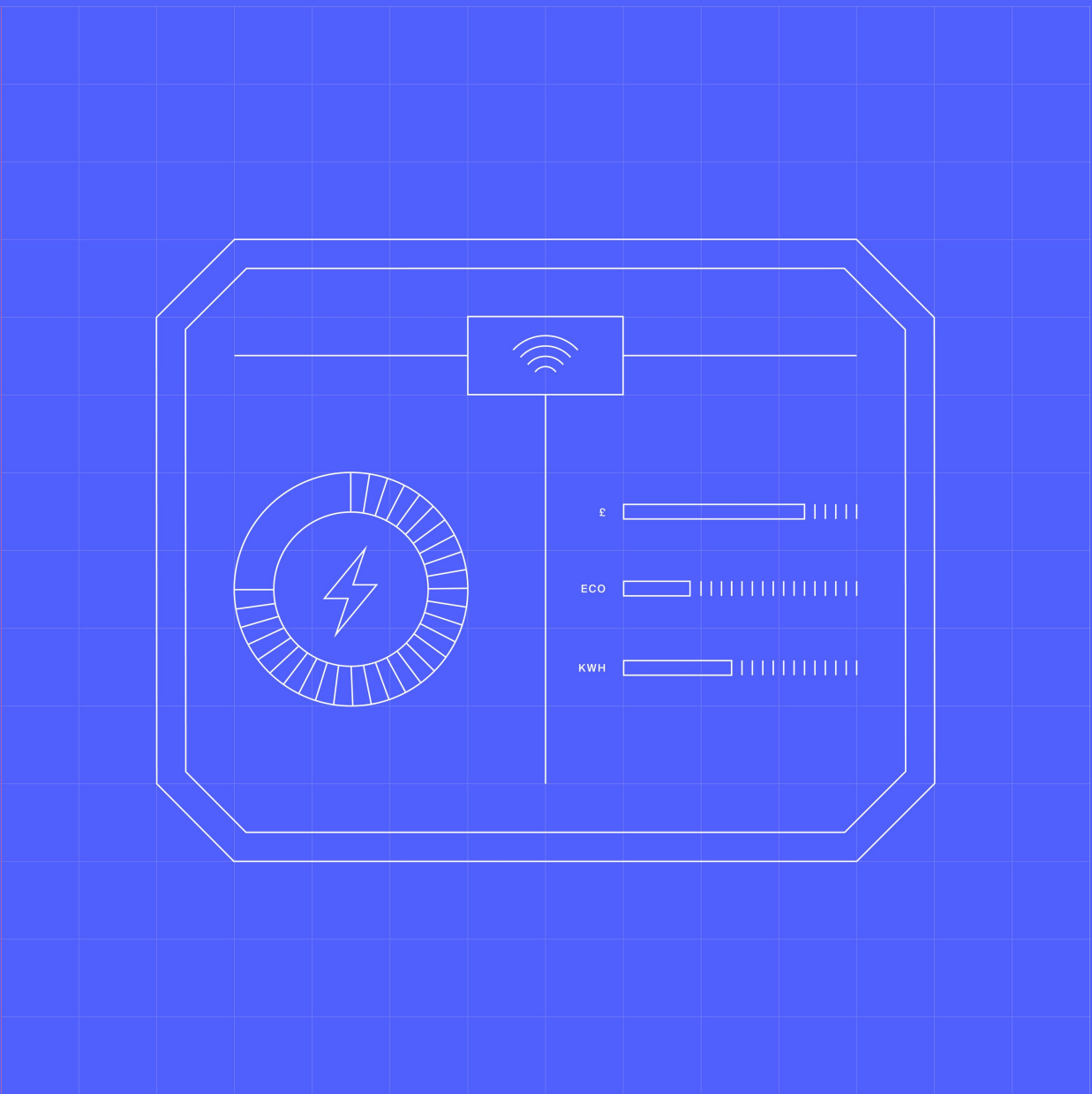


Benefits Realisation Plan (BRP)

DECISION: Approve the updated version of the Benefits Realisation Plan (BRP)

Jason Brogden

10 mins



Benefits Realisation Plan (BRP)

Objective of this agenda item:

PSG to recommend the updated Benefits Realisation Plan to the SRO to approve.

PSG to note that benefits tracking is an ongoing process will continue to develop and improve, and the Programme will continue to embed benefits realisation and an outcome-driven approach into the Programme.

The Benefits Realisation Tracker picks up quantifiable measures as actioned by PSG (e.g. defining acceptance criteria for milestones).

Reminder: The Benefits Realisation plan

- The Benefits Realisation Plan sets out how the Programme will deliver a defined set of Programme Outcomes and Success Measures that are derived from the benefits of the Programme; as taken from the Final Impact Assessment and as set out in the Programme Initiation Document (PID)

Actions since the approval of the Benefits Realisation Plan (Jun-22)

- We have taken the previously approved Benefits Realisation Plan and used this as the basis for the newly developed Benefits Realisation Tracker. We developed this tracker with the aim of taking activities from the plan and bring into Programme, as part of our day-to-day activities
- The Benefits Realisation Plan has been updated to reflect adaptations within the tracker
- We updated the Programme PMO tools and processes, such as RAID items and the change control form. These documents now explicitly reference the impact on Programme Outcomes and associated Success Measures. The change request form will be updated to reference the Benefits Realisation documents, once published
- We have reflected the 18th Success Measure (Design captured coherently and accurately in accordance with the TOM and tested) within the PID slide, following its approval as part of the Benefits Realisation Plan
- From Control Point 1 we have taken action to embody programme outcomes into the ethos of the Programme team (to be progressed with the Programme Change Manager)

Next steps, to include outstanding CP1 actions

We successfully navigated Control Point 1 assessments, obtaining an *Exemplar* rating due to clear mapping of benefits from delivery outputs, programme outcomes and success criteria (KPIs) through to those benefits to be realised by industry. Next steps (to include specific Control Point 1 actions) are as follows:

1. Continue to build upon the baselined Benefits Realisation Tracker, to incorporate products & milestones tying to each of the success measures. This will also include consideration of deliverables and milestone dates upon approval of the Programme replan
2. Include success measures in internal Product Descriptions
3. Include reference to the Benefits Realisation Plan & Tracker within the PMO Change Documents, once published
4. Build outcomes culture – socialise outcomes / KPIs across MHHS team, and integrate these into ways of working
5. Confirm acceptance criteria for Level 1 milestones

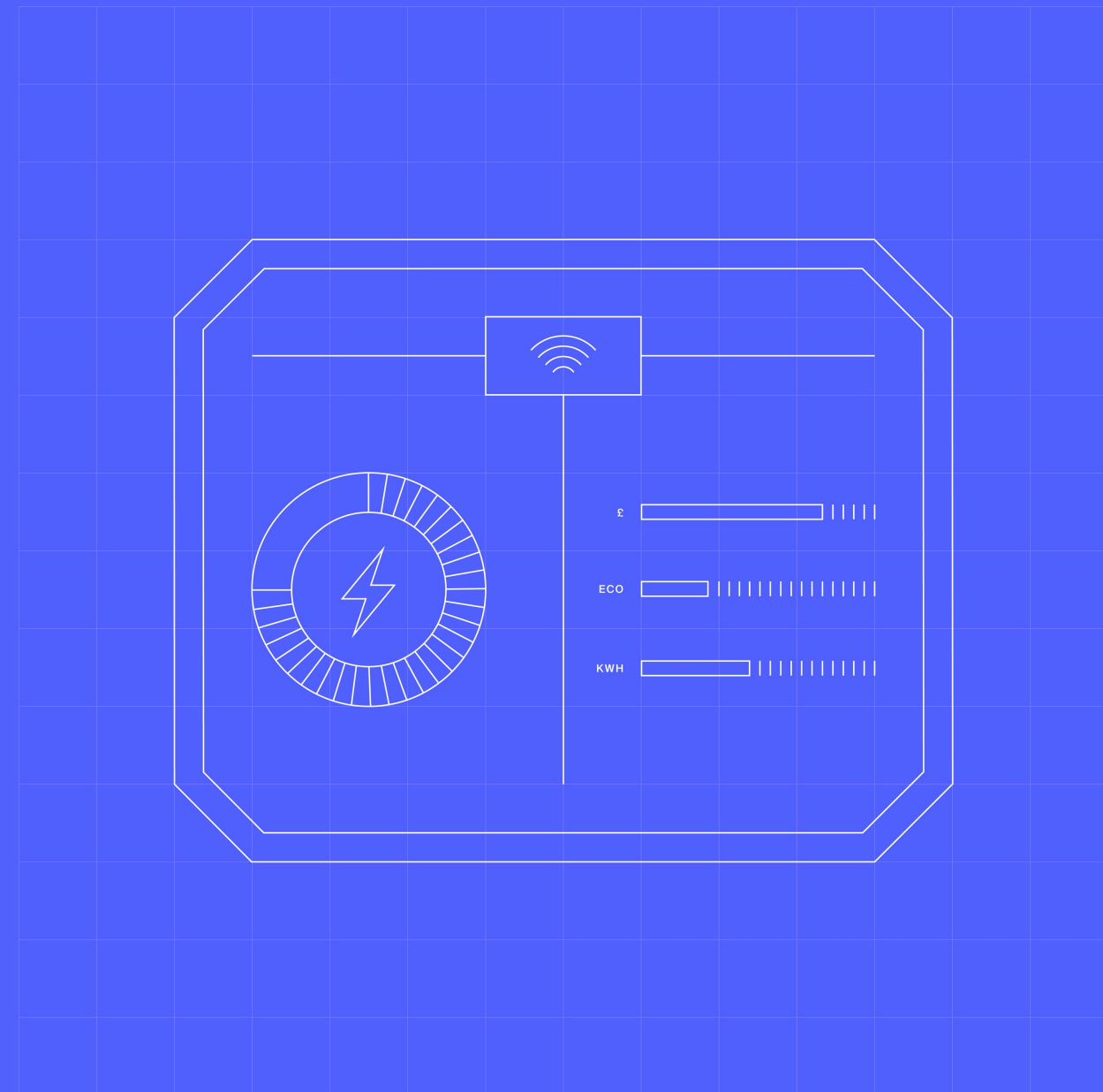
Change Control

DECISION:

- CR013: Make a decision whether to approve or reject CR013 - Commercial Impacts Change Request
- CR015: Decision on whether to raise CR015 to Impact Assessment
- CR016: Change Board has approved housekeeping change

Gareth Evans, Graham Wood, Jason Brogden

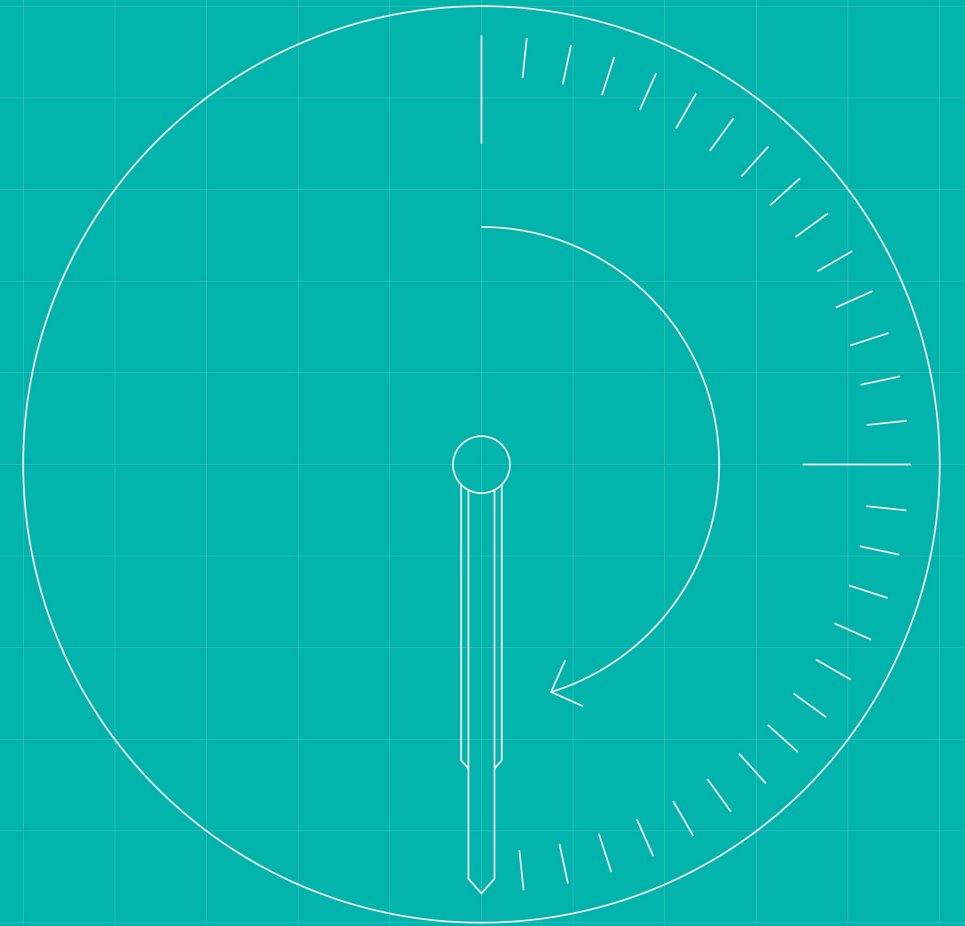
15 mins



CR013 Decision

DECISION: CR013: Make a decision whether to approve or reject CR013 - Commercial Impacts Change Request

Gareth Evans, Jason Brogden



CR013 – Impact Assessment Summary

Objective of this session:

PSG to review the outputs of CR013 Impact Assessment and SRO to make decision.

If CR013 is approved, the Programme recommends that: the Programme's proposed approach to deliver CR013 is enacted. The delivery approach will be iterative and has been informed by Impact Assessment responses from Programme Participants. The Programme will establish a dedicated Working Group, as suggested in several responses. Start date of the exercise is dependent on availability of resources to deliver the Change Request. We request industry propose suitable resources to the Programme to undertake and support market analysis.

Headlines:

- **A significant majority of respondents supported the request** to better understand the impact moving to half hourly settlement will have on the balancing regime and settlement
- The overall response rate for CR013 (12%); **in total, 17 respondents supported the change, 1 respondents rejected the change and 3 respondents abstained**
- Specifically, **8 respondents agreed to the change with unqualified support:**
 - The change supports the Programme's objective "to prove and provide a model for future such industry-led change programmes", by taking a proactive approach to identify and mitigate risks associated with the early operation of the new arrangements
 - The change will provide greater understanding of the interactions and impacts on settlement processes and support consumer experience
- **9 respondents supported the change, but highlighted the following considerations:**
 - Programme Participants must provide the necessary SMEs with the requisite time to contribute to the development of this work
 - The exercise should consider the effect on end consumers
 - Several respondents stated a distinct Working Group should be mobilised to respond to outcomes of the exercise
 - Several respondents stated the scoping exercise and the work required to understand settlement impact should be combined under one Change Request, eliminating unnecessary delay and cost
 - Uncertainty relating to Programme Participant's cost obligations to support the exercise, such as meeting attendance and responding to requests for information
 - Greater clarity required regarding delivery timescales and expected outputs
 - There are additional requirements to:
 - understand the impact on energy volume volatility as NHH customers move to HH settlement (whilst recognising the impact will be partly mitigated by the migration timelines)
 - consider the impact to DUoS billing; the Programme should consider an additional step in the Migration Plan for MHHS PMO to provide assurances and confidence to LDSO's that we will be able to continue to accurately and timely bill Suppliers for DUoS
- **1 respondent rejected the change:**
 - Ofgem has initiated the MHHS SCR and any review may re-open previous decisions
 - The exercise proposed in CR013 should be delivered by a relevant Code Body rather than the Programme
 - Impacts should be considered in the context of the purpose of the SCR which is to allocate energy (and network charges) more accurately (day and time of day) to Suppliers and their customers
 - The resource necessary to consider these impacts may be redirected from critical design and code drafting activity

CR013 – Submitted Impact Assessments

Please see appendix for full detail on CR013 Impact Assessment

Programme Parties	CR013 Recommendations				Market Share			
	Yes	No	Abstained	Not Replied	Yes	No	Abstained	Not Replied
Large Suppliers	3	-	-	3	59%	-	-	41%
Medium Suppliers	2	-	-	5	39%	-	-	51%
Small Suppliers	1	-	-	32	<1%	-	-	100%
I&C	3	-	-	38	22%	-	-	78%
DNOs	4	-	-	3	61%	-	-	39%
iDNOs	-	-	-	13				
Ind. Agents	-	1	-	47				
Supplier Agents	-	-	2	4				
S/W Providers	-	-	-	25				
REC Code Manager	1	-	-	-				
National Grid	1	-	-	-				
Consumer	-	-	-	1				
Elexon (Helix)	1	-	-	-				
DCC	-	-	-	1				
SRO / IM & LDP	1	-	-	-				
IPA	-	-	1	-				

- Market Share information is according to the latest Meter Point Administration Number (MPAN) data held by the Programme as at January 2023
- The classification of Independent and Supplier Agents is maintained by the Programme Party Coordinator and is subject to change

Rationale for being marked down as 'abstained'

- One Supplier Agent stated the largest impacts to settlement will be to the suppliers rather than Meter Operators
- One Supplier Agent stated other constituencies in the market are more impacted by this proposed change
- The IPA highlighted the change is not expected to have an impact on our activities and has no specific objections to the request

MHHS Programme Approach to Deliver CR013 (Page 1)

Scope of Work to Deliver CR013:

It is essential that the work done under CR013 is the scoping work set out below and not the substance of the analysis itself which will have to follow in a subsequent Change Request. The Programme believes it is important to be **outcome and deliverable focused** in taking on this work, rather than let the work develop as it goes. There is a dependency on this work completing in time to allow the industry to take action to address any commercial risks that it might highlight.

The Programme recommends that the report highlighted in the Change Request describes the areas for assessment, but also **sets out the scope, approach and plan for the next body of work** so that when another Change Request is raised to undertake the analysis (as suggested in CR013), the activities and cost of that work is well understood. The proposed report should look like a Project Brief, owned by the Programme. This would likely cover:

- Overall objective
- Requirements (across stakeholder groups) and desired outcomes
- Assessment and proposal for Scope
 - Assessment of all areas of the balancing and settlement regime
 - Proposal for the scope of areas for detailed assessment
 - Definition of outcomes for assessment
- Defined methodology, including Modelling approach
- Products to be delivered (e.g. models, data generators)
- Input Data required and source of input data
- Activities to support desired outcomes
- Cost (PMO and Chair support, bilateral meetings and high-level analysis)
- Risks, issues and dependencies
- Given the response from participants, the Working Group will consider including DUoS billing into the scope of the exercise

We also recommend that the output from the work under CR013 delivers the draft of the subsequent Change Request/issues group that will undertake the analysis itself.

Suggested Plan to deliver Change Request

Mobilise a **Level 4 Working Group every 3 weeks to develop this content over a period of 3 months**, so 4 months elapsed in all with mobilisation and reporting

- 1st meeting – ToR and output
- 2nd meeting – scope of analysis
- 3rd meeting – analyse areas
- 4th meeting – review and agree report & draft CR to go to PSG for approval

Resource to deliver Change Request

- We expect that Programme Participants as **Working Group members** will take work away to contribute to the outcomes of this Change Request (particularly in areas that they have specific expertise)
- SRO team Chair at 0.15 FTE
- PMO support at 0.2 FTE to support the Working Group
- LDP CPT support at 0.15 FTE
- Market Analyst at 1 FTE to own the drafting and delivery of the Report & CR
- There is no modelling/software costs to be included in this first scoping exercise
- All expertise provided by industry (including Elexon BSCCo) is provided by those parties and not recharged to the Programme (in accordance with their BSC obligations to support the Programme)

Our Rough Order of Magnitude (ROM) for cost is £98,400 This is based on resources from above. There is an assumption that there is no modelling/software costs to be included.

Given the comments from Programme Participants, we request industry propose suitable resources to the Programme to undertake or support the market analysis work.

Scheduling considerations

The Programme agrees with the Change Request that this work should not impact the critical path of the programme and therefore should not have a material impact on the Programme schedule, but this is **dependent on the resource deployed to the work**. If the resource deployed to the work would otherwise have been working on Programme critical activity, then this will have an impact, therefore it the proposal should be to use non-critical or new Programme resources. This may be a particular risk for Programme Market Analyst resource.

In thinking of the timeline for the completion of this work, we expect that the subsequent analysis from the next Change Request/issues group will need to be **delivered 3 months in advance of migration**, to give time to suppliers and industry to consider their trading and forecasting positions.

Start date of exercise is dependant on availability of resources to deliver the Change Request and the above request is intended to mitigate resourcing risks.

CR013 Impacts – Views on the proposed approach (Page 1)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR013)
Large Suppliers	<ul style="list-style-type: none"> + Respondents unanimously supported the overall recommendation to approve the change + The assessment and any subsequent actions required to mitigate the risks of MHHS processes should be progressed in parallel with the design and delivery of the Programme and as such should not impact timelines – The scoping exercise and the work required to understand settlement impact should be combined under one Change Request, eliminating unnecessary delay and cost – Uncertainty relating to Programme Participant's cost obligations to support the exercise, such as meeting attendance and responding to requests for information – Greater clarity required regarding delivery timescales and expected outputs
Medium Suppliers	<ul style="list-style-type: none"> + Respondents unanimously supported the overall recommendation to approve the change + Supportive of additional work to be undertaken by the Programme to better understand the interactions and impacts on settlement processes + CR013 will in turn aid our ability to plan any changes to our internal processes, systems etc.
Small Suppliers	<ul style="list-style-type: none"> + The one respondent supported the overall recommendation to approve the change
I&C	<ul style="list-style-type: none"> + Respondents unanimously supported the overall recommendation to approve the change – Several respondents stated the change request does not adequately indicate the resource effort, cost impact and timescales of delivering this work
DNOs	<ul style="list-style-type: none"> + Respondents unanimously supported the overall recommendation to approve the change + Comparatively little work has been done as to what the impact will be on settlement from the move from majority estimated to majority actual consumption + The magnitude of the change to settlement that will occur as sites migrate is poorly understood – Several respondents stated there is an additional requirement to consider the impact to DUoS billing – the Programme should consider an addition step in the migration plan for MHHS PMO to provide assurances and confidence to LDSO's that we will be able to continue to accurately and timely bill Suppliers for DUoS – A further assessment would be to obtain a clearer understanding of the impact on energy volume volatility as NHH customers move to HH settlement

CR013 Impacts – Views on the proposed approach (Page 2)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR013)
iDNOs	<ul style="list-style-type: none"> ▪ Did not respond to Impact Assessment
Agents	<ul style="list-style-type: none"> – Ofgem has initiated the MHHS SCR and any review may re-open previous decisions – The exercise proposed in CR013 would be delivered by a relevant Code Body rather than the Programme – Impacts should be considered in the context of the purpose of the SCR which is to allocate energy (and network charges) more accurately (day and time of day) to Suppliers and their customers – The resource necessary to consider these impacts will be redirected from critical design and code drafting activity – The change could result in uncertainty over the Programme resulting in certain market participants failing to engage, and late or poor programme delivery
S/W Providers	<ul style="list-style-type: none"> ▪ Did not respond to Impact Assessment
REC Code Manager	<ul style="list-style-type: none"> + Fully supportive of the proposal and would represent best practice in a large-scale transformation of this type + Supports the Programme objective “to prove and provide a model for future such industry-led change programmes”, by taking a proactive approach to identify and mitigate risks associated with the early operation of the new arrangements + The outputs of this work should be made available on an enduring basis, beyond the life of the Programme (i.e. on an enduring basis by the BSC Code Manager)
National Grid	<ul style="list-style-type: none"> + Support the Change Request and subsequent work carried out by the MHHS Programme to understand any commercial impacts that could affect its participants + Exercise should consider effect on end consumers + A distinct Working Group should be mobilised to respond to outcomes of the exercise; this will ensure the Programme and Programme Participants work in conjunction to manage solutions before implementation and go-live

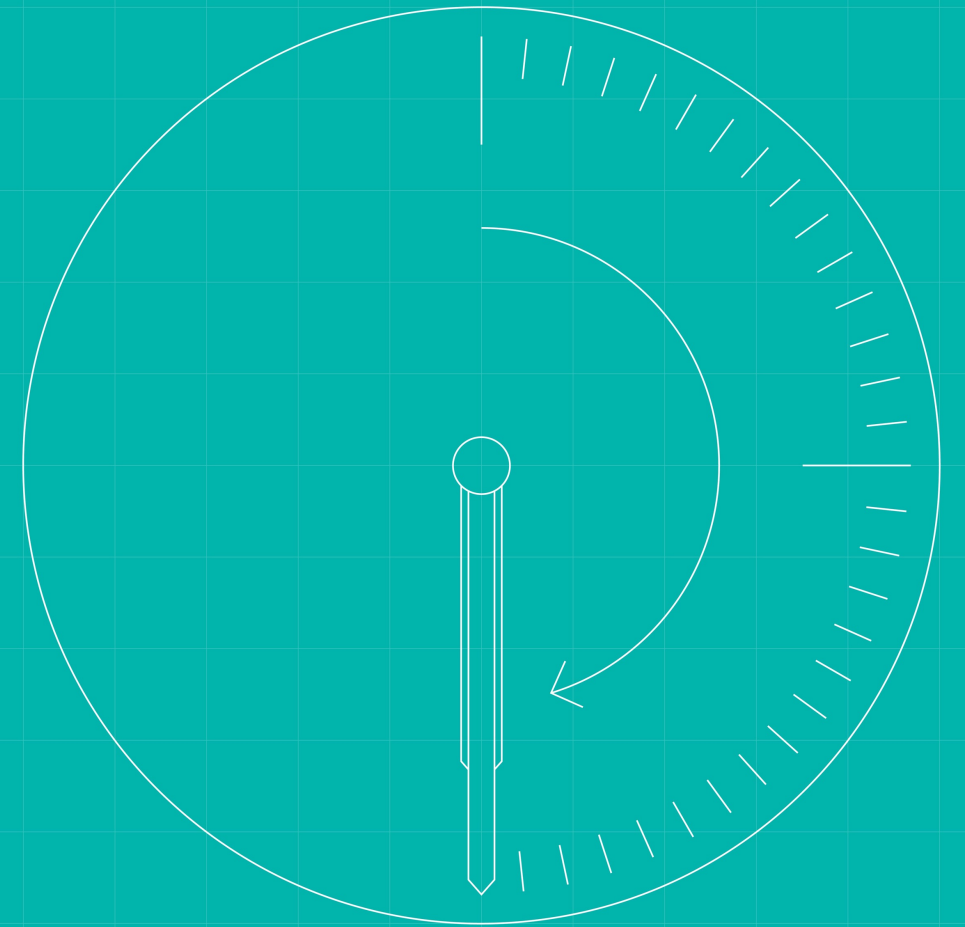
CR013 Impacts – Views on the proposed approach (Page 3)

Programme Parties	Range of respondents' views on benefits and concerns (related to the approach in CR013)
Consumer	<ul style="list-style-type: none"> ▪ Did not respond to Impact Assessment
Elexon (Helix)	<ul style="list-style-type: none"> + Agree that understanding and reviewing the impact of MHHS on areas of settlement would benefit the wider MHHS Programme + Useful for an investigation to be done under MHHSP governance, on the impacts on settlement processes and calculations, caused by the usage of more accurate data and implementation of MHHS processes – While there should not be a material impact on the programme timeline, there is a risk that the undertaking of this work takes programme resource from other areas resulting in pressure on milestone completion
DCC	<ul style="list-style-type: none"> ▪ No impact to DCC from the proposed work to undertake an assessment of SVA consumption processes in moving to a full HH settlements model
SRO / IM & LDP	<ul style="list-style-type: none"> + The Programme agrees that the benefits of this Change Request in mitigating the risk of serious market impact of MHHS changes outweighs the potential costs + Completing this Change Request is a reasonable staging post in completing a feasibility study to consider the much larger costs of completing the analysis work itself + Delivering this change should establish an evidence base to consider progressing the settlement analysis itself – Programme Participants must provide the necessary SMEs with the requisite time to contribute to the development of this work
IPA	<ul style="list-style-type: none"> ▪ Comfortable that the change is not expected to have an impact on their activities and has no specific objections to the Change Request

CR015 Impact Assessment Decision

DECISION: CR015: Decision on whether to raise the
Change Request to Impact Assessment

Graham Wood, Jason Brogden



Update on CR015 - a Change Request raised by Large Supplier Representative

Objective: PSG to decide on whether to raise the Change Request to Impact Assessment

Differential Settlement for E7/E10 Meters for Smart Opt-out customers

Issue Statement:

- A change is required to mitigate a material negative impact on 140k to 560k customers with Smart meters on Time of Use tariffs who wish to opt-out of HH data sharing
- The change intends Programme Participants to review and impact assess the two options identified within this change request
- Feedback on option preference, along with the provision of supporting evidence/rationale from interested parties, will be essential to enable the programme and ultimately the decision-maker(s), to reach an informed conclusion on the way forward

Description of change:

- A number of technical options have been developed by the design team and discussed as part of the Design work-off plan activity
- CR015 seeks to impact assess **two of these options:**
 - A. The Supplier would provide the data service with a split of the energy. The data service would then calculate a daily meter advance and use the fractions to split it into peak and off-peak energy for the data service
 - B. Unrestricted and Time of Use load shapes would be created to specifically address this issue; this would be achieved through the incorporation of a 'MHHS Switch Load Indicator' into the registration system

Justification for change by option:

- A. Ensures the actual peak / off-peak consumption split is preserved within settlement at a customer level and therefore the supplier is no longer exposed to increased cost for these customers as a result of misallocation
- B. Ensures that there is no transfer of cost from Unrestricted to Time of Use customers as a result of the single load shape, by profiling these subsets to distinct load shapes that are reflective of their actual consumption shape

MHHS Change Board outcomes

- Change Board validated CR015 on 31-Jan-23
- Change Board agreed CR015 should be reviewed by the PSG on 01-Feb-23 with a decision on raising for full Impact Assessment

MHHS PROGRAMME
Industry-led, Exelon facilitated

Change Request Form

Change Request details

Change Request details			
Change Request Title	Differential Settlement for E7/E10 Meters for Smart Opt-out customers		
Change Request Number			
Originating Advisory / Working Group	DAG		
Risk/issue reference			
Change Raiser	Graham Wood & Haz Elmamoun (on behalf of the Large Supplier constituency)	Date raised:	28 January 2023

For further guidance on how to complete this document please see the supporting Change Request Form Guidance for Programme Participants. The guidance will support raising a change and responding to a change request via Impact Assessment. The Change Raiser should consider sharing the draft Change Request Form with impacted programme parties, prior to submission to PMO. The guidance, as well as other key documents are referenced below and can be found via the MHHS website.

Change Request to be read in conjunction with:

MHHS Change Request Form Guidance for Programme Participants
MHHS Change Control Approach
MHHS Governance Framework
Ogem's MHHS Transition Timetable

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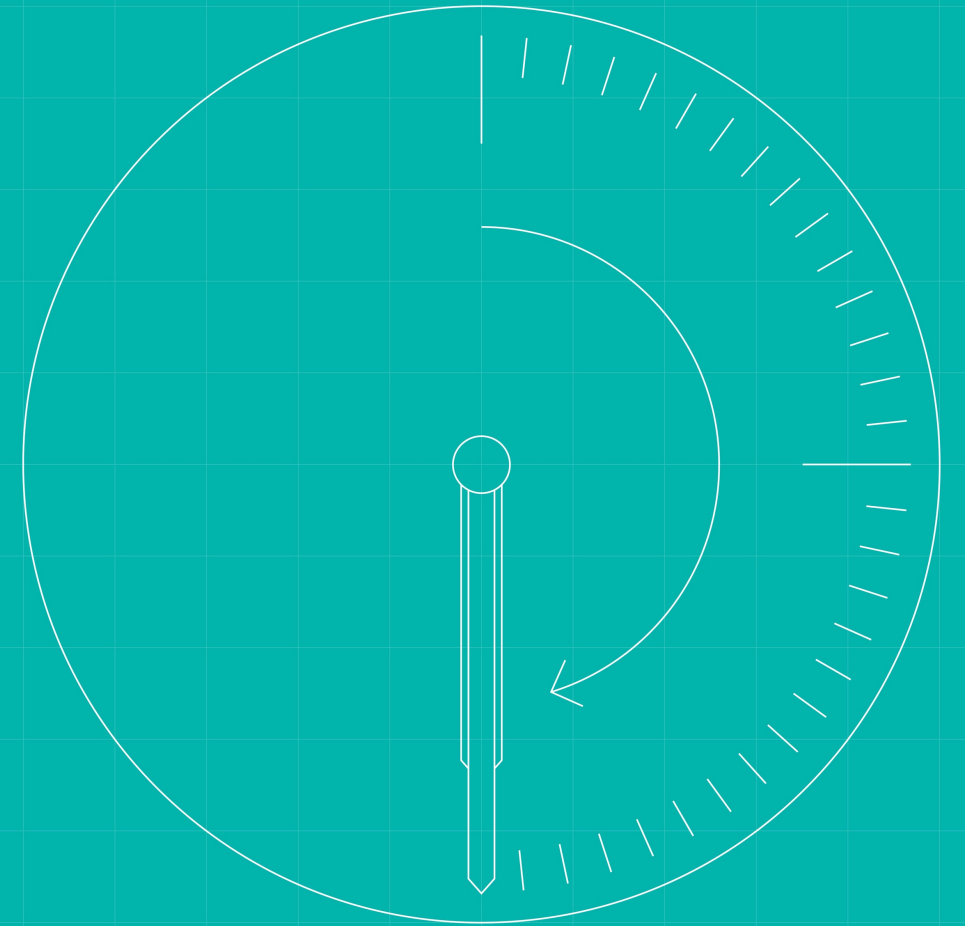
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MHHS-DEL919 CR015

CR016 Change Board approval

INFORMATION: CR016: Change Board has approved housekeeping change

Chair and Secretariat



Update on CR016 - a Change Request was approved by Change Board

Changes to the Change Control Approach to incorporate design change process

Issue Statement:

- With approval of the Physical Baseline Design and of Milestone 5 in October 2023, the Programme has formalised a post-M5 design change management process to ensure appropriate management and control of the agreed baseline
- It is necessary for the Programme Change Control Approach (MHHS-DEL171) and the Design Change Management Procedure (MHHS-DEL744) to align with one another
- The Design Advisory Group (DAG) approved the Design Change Management Procedure (MHHS-DEL744) and Design Authority (DA) Terms of Reference (MHHS-DEL762) on 11 January 2023
- Collectively, these design changes have been incorporated into the Programme Change Control Approach (MHHS-DEL171) and require an MHHS Change Request to validate the updates
- Given the updates to Change Control Approach are cosmetic and cover administrative changes that have no impact on programme outcomes or its deliverables, the Change Raiser considers CR016 as a housekeeping change

Description of change:

- Various housekeeping amendments to signpost the post-M5 design change management process; the major change is a new section (Item 8,) titled Design Authority, which provides an overview of the group

Risks associated with potential change:

- There is no risk to the Programme through the implementation of this change; this change is intended to mitigate the risk of inefficient or unclear ways of working for MHHS Programme Parties with the MHHS Programme and between each other
- Failing to update the Change Control Approach would render the information in the artefact outdated and therefore, unsuitable for publication

MHHS Change Board outcomes

- Change Board approved CR016 on 31-Jan-23 as a housekeeping change
- Change Board agreed CR016 should be shared with the PSG for information

MHHS PROGRAMME
Industry-led, Elexon facilitated

Change Request Form

Change Request details

Change Request details	
Change Request Title	Changes to the Change Control Approach to incorporate design change process
Change Request Number	CR016
Originating Advisory / Working Group	N/A
Risk/issue reference	N/A
Change Raiser	Alex Whiteley (MHHS Programme) Date raised: 30/01/2023

For further guidance on how to complete this document please see the supporting Change Request Form Guidance for Programme Participants. The guidance will support raising a change and responding to a change request via Impact Assessment. The Change Raiser should consider sharing the draft Change Request Form with impacted programme parties, prior to submission to PMO. The guidance, as well as other key documents are referenced below and can be found via the MHHS website.

Change Request to be read in conjunction with:

MHHS Change Request Form Guidance for Programme Participants
MHHS Change Control Approach
MHHS Governance Framework
Ofgem's MHHS Transition Timetable

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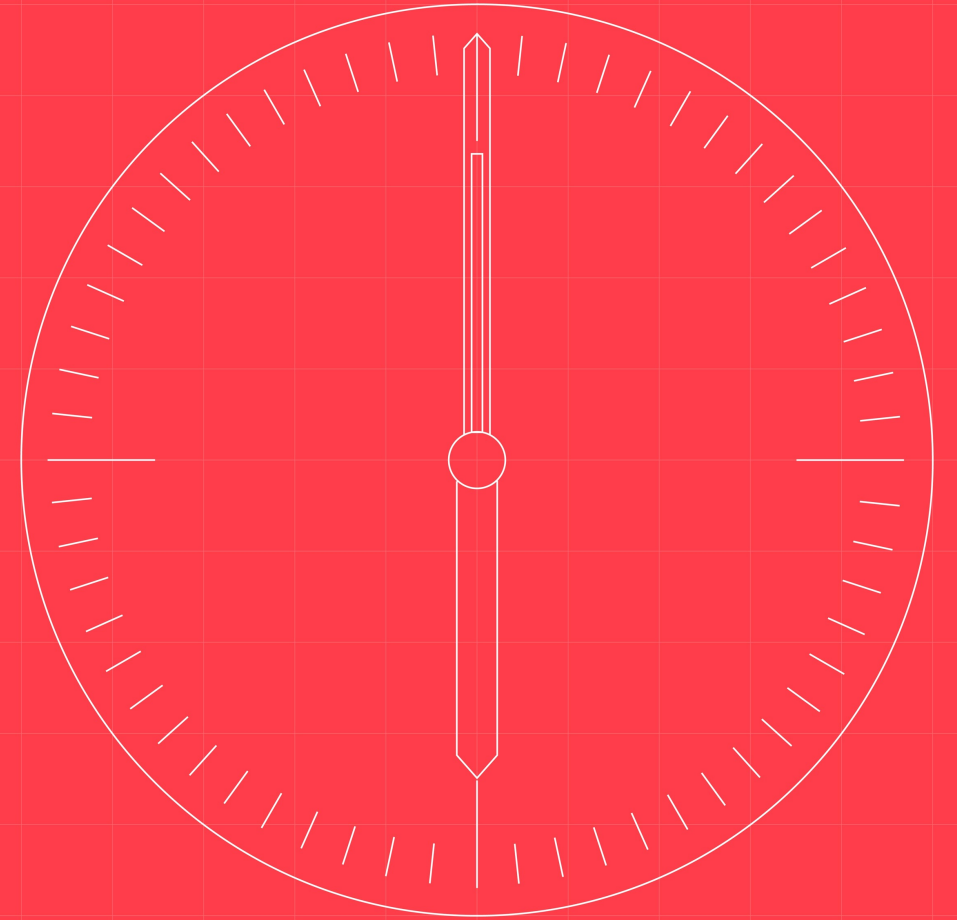
MHHS-DEL920 CR016

Working Group engagement

DISCUSSION: Review attendance at MHHS Working Groups and discuss ways to improve engagement from under-represented parts of industry

Programme PMO

10 mins



Summary of Working Group engagement analysis

Context

The MHHS Programme has recently analysed the make-up of distribution lists for MHHS Level 4 Working Groups. This is to understand how MHHS constituencies and the organisations within them are engaging with the Programme and to identify where industry representation could be improved. Please see the appendix of this pack for the full analysis.

The relevance of this analysis for PSG

1. To provide understanding to Constituency Representatives of how their constituents engage with MHHS Working Groups and workstreams
2. To ask Constituency Representatives to consider where improved representation from their constituency may be beneficial. Such as:
 - a) iDNOs, I&C Suppliers and Small Suppliers at all Working Groups
 - b) Attendance to the SITWG and QWG for all constituencies – this is where attention should be shifting following baselining of the Design

Why Working Group representation matters

While we may not expect or need all organisations to engage at every Working Group (and we recognise that some organisations engage collaboratively or are represented collectively), low representation could be concerning:

- Some organisations must be ready for the start of migration. It is concerning if these organisations are not engaging with MHHS
- While not decision-making, the Working Groups are where the bulk of MHHS development work is taking place. Organisations or constituencies that are not engaged via the Working Groups may not be able to influence this development work, and hence their views/nuances/ways of working may not be considered in Working Group outputs
- Some organisations rely on others in their delivery of MHHS. If your partners are not engaging, they may also not be progressing. This could be a concern for your delivery. Ultimately the responsibilities and obligations sit on Programme Parties and not service/systems providers.

Analysis summary

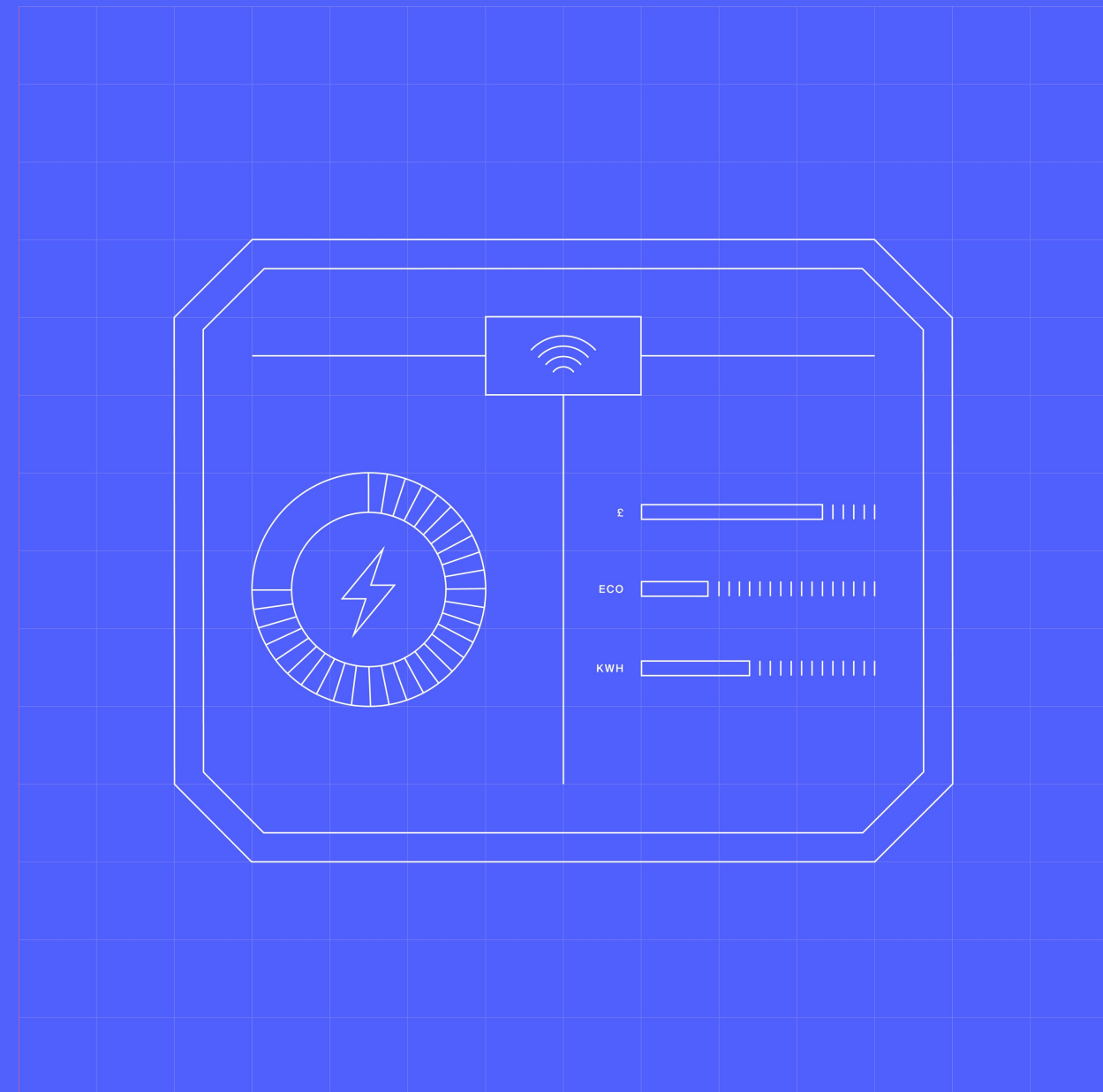
- The number of individuals on each Working Group distribution list varies. BRPWG/TDWG has the highest number (259 individuals) while SITWG, EWG, MDSG and CDWG are low comparatively (between 62 and 75 individuals)
- Some organisations have multiple individuals on each Working Group. When looking at the number of organisations on each distribution list, BPRWG/TDWG is still high (78 organisations) while SITWG, QWG, EWG, MDSG and CDWG are still low (between 35 and 45 organisations). On average, 47 organisations are represented in each MHHS Level 4 group - about 1/4 of all Programme Participant organisations
- Despite variability in the number of individuals and organisations across each distribution list, there is at least one organization from each MHHS constituency are represented in every Working Group except for Small Suppliers. Small Suppliers are only represented in 2 Design groups. It is positive that a participant from all industry constituencies are engaging and actively participating in MHHS activities (this also supports the MHHS governance/constituency model)
- While each constituency is represented at each Working Group (except Small Suppliers), there is variation in the number of organisations from each constituency at each Working Group. Some constituencies have a high proportion of their constituent organisations engaged in each working group while others do not. In general, Central Parties, Code Bodies, Large Suppliers, Medium Suppliers and DNOs are well represented. I&C Suppliers, Small Suppliers and iDNOs are have low representation. There are 85 organisations (almost half) that are not on any Working Group distribution list. This is concerning. These are primarily Small Suppliers, I&C Suppliers, iDNOs and Software Providers.

Delivery dashboards

INFORMATION: Take questions from PSG members on delivery dashboard content

Chair

10 mins



Delivery dashboards - contents

Area	Title	Purpose	Page
MHSP Programme level	Milestone Status	Provide an overview of progress against Programme milestones	42
	Interim Plan Status	Provide an overview of progress against the Programme interim plan	43
	Risk Themes	Provide a high-level view of Programme Risks	44-47
	Finance	Provide high-level forecast and actual Central Programme expenditure	48
	Change Control	Update on the status of Change Requests	49
MHSP workstream level	Design Work-Off Plan and Migration Design	Update on progress of the Work-Off Plan and Migration Design <i>Note: Please refer to the agenda item on Design for this month's content</i>	N/A
	Code Drafting Status	Update on the progress of Code Drafting against the Code Draft plan	50
	Level 3 Advisory Group updates	<ul style="list-style-type: none"> Update on key discussion items and outcomes from recent Level 3 Advisory Groups Provide a forward look to future Level 3 Advisory Groups 	51-52
	PPC activity	Provide information on PPC activity and participant engagement – includes a summary from the recent open day	353
Assurance	Independent Programme Assurance (IPA)	Provide a progress update on in-flight and future planned assurance activities	54
Industry	Core Capability Provider Delivery Plans	Provide an overview of Helix, DCC, RECCo, St Clements and DIP delivery plans and progress against them	55-58
	Central Party Finances	Provide high level Central Party forecast of expenditure against plan	59
	Industry Change	<ul style="list-style-type: none"> Summarise activity at the Consequential Change Impact Assessment Group (CCIAG) Summarise items raised to the Programme horizon scanning process 	60

MHHS Milestone Status

Red Baseline date has not been met or is expected not to be met

Amber Baseline date may not be met and/or new date not yet agreed

Green Baseline date expected to be met

Milestone Status
Updated to 24/01/2023

Level	Milestone		Milestone Date		Status	Path to Green – Actions (& related impacts)	Previous RAG Jan PSG	Current RAG Feb PSG	Forecast RAG Mar PSG
			Baseline	Forecast					
1	M5	Physical baseline design delivered	29-Apr-22	31-Oct-22	<ul style="list-style-type: none"> DAG approved M5 	<ul style="list-style-type: none"> This milestone has been met and the related delivery of the work-off plan and migration design are being tracked 	Met	Met	Met
	M3	Design, Build Start (Elexon)	31-Aug-21	Complete			Met	Met	Met
	M3	Design, Build Start (DCC)	28-Feb-22	Complete			Met	Met	Met
	M3	Design, Build Start (DNOs)	31-May-22	05-Apr-23 for unconditional approval	<ul style="list-style-type: none"> M3 was conditionally approved at PSG in Nov-22 New M3 criteria were agreed at PSG in Dec-22 to support a further M3 approval decision after the Round 3 plan consultation 	<ul style="list-style-type: none"> Unconditional M3 approval will be sought at PSG in Mar-23 based on new criteria agreed at PSG Dec-22, and expected to be met as a result of requests made during the Round 3 planning consultation 	Met conditionally	Met conditionally	Met
	M3	Design, Build Start (iDNOs)	31-May-22						
	M3	Design, Build Start (Agents)	31-May-22						
	M3	Design, Build Start (Suppliers)	31-May-22						
M5+	Industry re-plan	29-Jul-22	20-Apr-23	<ul style="list-style-type: none"> MHSP have confirmed 'plan for the plan' and updated / extended the interim plan Round 3 consultation completed on 31-Jan-23 	<ul style="list-style-type: none"> Re-draft the plan based on Round 3 feedback, continued meetings with stakeholders (including core capability providers to align plans) and WG & AG decision-making on detailed delivery approaches Likely and eventual request for Ofgem to approve a related Change Request 	Green	Green	Green	
1	M9	System Integration Testing Start	31-Aug-23	(30-Oct-23) Round 3 proposed	<ul style="list-style-type: none"> Date to be determined during the programme re-planning activity Round 3 proposed M9 date is 30-Oct-23 	<ul style="list-style-type: none"> Not all Core Capability Providers (CCPs) are yet able to provide DBT plans that support this date although there are opportunities to mitigate impact. Regular bilateral meetings between those CCPs and MHSP are ongoing to find solutions to support the date 	Red	Red	Red
1	M6	Code changes baselined	29-Apr-22	(04-Apr-24) CR012 / Round 3 proposed	<ul style="list-style-type: none"> CR012 proposes a change to the date that will be stated in the Round 3 re-plan and reviewed as part of the consultation (shown as forecast date here) 	<ul style="list-style-type: none"> Agree new dates as part of re-baselining the plan, and those new dates are not expected to be on the programme's critical path 	Red	Red	Red
	M7	Smart Meters Act powers enabled	31-May-22	(06-Dec-24) Round 3 proposed	<ul style="list-style-type: none"> Date to be reviewed during re-plan consultation 	<ul style="list-style-type: none"> Agree new dates as part of re-baselining the plan, and those new dates are not expected to be on the programme's critical path 	Red	Red	Red
	M8	Code changes delivered	30-Nov-22	(07-Mar-25) Round 3 proposed	<ul style="list-style-type: none"> Date to be reviewed during re-plan consultation 	<ul style="list-style-type: none"> Agree new dates as part of re-baselining the plan, and those new dates are not expected to be on the programme's critical path 	Red	Red	Red

Progress against the Interim Plan

Red

Baseline date has not been met or is expected not to be met

Amber

Baseline date may not be met and/or new date not yet agreed

Green

Baseline date expected to be met

Interim Plan status
Updated to 24/01/2023

Executive Summary		Plan RAG Status	
<ul style="list-style-type: none"> Interim Programme Plan: An updated and extended interim PoaP was approved by PSG on 07-Dec-22. The interim PoaP has since been updated in January to reflect the activities and associated dates from the Round 3 replan consultation. The updated interim PoaP was signposted to Programme participants in The Clock on 18-Dec-22. The PoaP can be found on the planning page of the MHHS website. Design Delivery: The Design Advisory Group (DAG) agreed to baseline the MHHS Design on 31-Oct-22 subject to a work-off item list to be delivered within three months. Progress against implementation of the M5 design Work-Off Plan is tracking green for completion by the end of Jan-23. The PSG decided to proceed with Migration Option 3 on 07-Dec-22. Programme Re-Plan Consultation: Round 3 consultation launched on 14-Dec-22 with a detailed Replan and supporting artefacts were made available to Programme participants via the MHHS website and Collaboration Base. The deadline for all participants to submit their consultation response is 31-Jan-23 with those participants interested in SIT requested to respond by 16-Jan-23, in line with the agreement at December PSG. The Programme received 19 participant responses by COB on 23-Jan-23, 13 of which either volunteered or registered interest to volunteer for participation in SIT. Top Delivery Challenges: (1) working with core capability providers to align their DBT plans with the intended programme plan to best manage critical path risks (R345), (2) reaching agreement with all stakeholders on the timeline in any re-baselined plan. 		Previous RAG	Amber
		Current RAG	Green
		Next period RAG	Green

Task	Workstream	Baseline date	Forecast date	RAG	Task	Workstream	Baseline date	Forecast date	RAG
Round 3 consultation ends	Programme Replan Baselineing	31-01-23	31-01-23	Green	Ofgem plan walkthrough	Programme Replan Baselineing	28-02-23	28-02-23	Green
Test Scope for all Test Stages (excl Migration / Reverse Migration) approved	Test Preparation & PIT Assurance	27-01-23	27-01-23	Green	Migration Design docs issued for consultation	Migration & Service Management Artefact development	13-02-23	13-02-23	Green
Test Traceability & Test Coverage for all Test Stages (excl Migration / Reverse Migration) approved	Test Preparation & PIT Assurance	27-01-23	27-01-23	Green	Data Assessment Report approved	Migration & Service Management Artefact development	28-02-23	28-02-23	Green
Pre-Qualification guidance delivered (in collaboration with code bodies)	Test Preparation & PIT Assurance	31-01-23	31-01-23	Green	Environment Approach & Plan – Work-off approved at TMAG	Test Preparation & PIT Assurance	15-02-23	15-02-23	Green
Test Query Tool implementation complete	Test Preparation & PIT Assurance	03-01-23	27-03-23	Red	Test Data Approach & Plan approved	Test Preparation & PIT Assurance	15-02-23	15-02-23	Green
DIP Simulator released	Test Stub Delivery	31-01-23	28-02-23	Red	Drafted code for Data Services & Metering topic areas issued for external review via consultation	Code drafting	14-02-23	14-02-23	Amber
M5 Design Work-off Plan delivered	Design Baseline & PP Design Management	31-01-23	01-02-23	Green	SIT Participant volunteers confirmed	Enduring PMO & PPC activities	21-02-23	21-02-23	Green
Enduring Change Management Process approved	Design Baseline & PP Design Management	31-01-23	11-01-23	Complete					
Change Process Webinar	Design Baseline & PP Design Management	16-01-23	16-01-23	Complete					
Inaugural Design Authority	Design Baseline & PP Design Management	26-01-23	26-01-23	Green					
iServer launched	Design Baseline & PP Design Management	31-01-23	08-02-23	Red					
Participant design assurance approach approved	Design Baseline & PP Design Management	11-01-23	11-01-23	Green					
Code drafting for Data Services & Metering topic areas complete	Code drafting	27-01-23	27-01-23	Amber					
Delivering Milestone 3 webinar	Enduring PMO & PPC activities	20-01-23	20-01-23	Complete					

RAID ID	RAID Description	Mitigation / Resolution	Resolution Date	Owner(s)	RAG
R345	There is a risk that Core Capability providers (including Central Parties) may not deliver early enough to support the commencement of SIT (M9) as planned	1) MHHSP is conducting regular 'account management' meetings with all Core Capability Providers (CCPs), to find ways to de-risk their DBT plans and support earliest delivery and readiness for SIT 2) Where appropriate, MHHSP will escalate issues within CCP organisations and will conduct bilaterals with any associated 3rd party software providers 3) Should any insurmountable obstacles to any specific CCP being ready for M9 be found, the date for M9 may need to be reconsidered	28/02/2022	Keith Clark	Red
R224	There is a risk that the credibility of any rebaselined plan may be low because there may be few responses to the Round 3 consultation	1) Easily accessible and clear planning artefacts, provided early – and comprehensive playback sessions to ensure clear understanding of the plan 2) Clear and explicit Round 3 consultation questions, provided as an on-line questionnaire so that they are easy to navigate and to complete 3) Targeted PPC support and engagement aimed at potential early adopters 4) Reminder to all participants of their obligations (to respond) and clear reporting (to PSG) of non-compliers	06/04/2023	Keith Clark	Red

Risk theme 1: Ability for Programme participants to progress with DBT activities as planned

Theme	Summary	Mitigation Approach Overview	RAG Status	
Ability for Programme Participants to progress with DBT activities as planned	Design, Build and Test (DBT) key risks denote challenges related to potential design changes post-M5, potential impact of consequential change and potential for new Participant capabilities to be introduced (adapters)	<ul style="list-style-type: none"> Risk to DBT success will be mitigated through timely communication through DAG and CCIAG, clear processes for managing design change and controlling design and delivery scope SI will be conducting design assurance and test assurance through the duration of Participant DBT to support readiness in alignment with planned timescales 	Previous RAG	Amber (9 risks)
			Current RAG	Amber (9 risks)

Risk ID	Risk Description	Key Risks																		Score movement since last PSG	Mitigation Plan												
		Risk Score Assessment																															
		Critical				High				Medium				Low																			
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
R284	There is a risk that the lack of clarity of the consequential change impact on Participants may affect quality of DBT outcomes																															New item	<ol style="list-style-type: none"> Programme plan acknowledges the period during which Participants will need to have conducted DBT of consequentially-impacted systems – and articulates how the programme will assess Participants’ DBT progress and manage any consequential change (CC)-related RAID items through CCIAG process, with CCIAG running successfully in support Programme looking to baseline CC from CC log at end Jan for consideration in Code drafting
R274	There is a risk that some Participants may decide that adapters are required, and in such cases the plan may need to allow additional time to integrate any adapter services																															New item	<ol style="list-style-type: none"> Capture specific risks in the baseline plan and identify any mitigating activities and potential contingencies Participants to identify at the earliest opportunity, whether adapters are envisaged (and who will provide them) PPC bilaterals with potential adaptor users and providers
R292	There is a risk that when Participants undertake their design, issues in the core design baseline may be identified																															New item	<ol style="list-style-type: none"> Design Authority and change control processes will triage and impact assess all proposed changes post M5 to control how issues are managed

Items can be raised to the Programme RAID log using the [RAID input form](#). Please refer to the Programme [Digital PMO \(DPMO\)](#) to see Programme risks in more detail

Key	
I	Initial Score
C	Current Score
T	Target Score

Risk theme 2: Completion and outputs of the Programme Re-plan activity

RAID (2 of 4)
Updated to 25/01/2023

Theme	Summary	Mitigation Approach Overview	RAG Status	
Completion and outputs of the Programme Re-plan 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 Transition Timetable (which may complicate event)	<ul style="list-style-type: none"> Seek earliest baselining of the Programme plan – this, together with the Design baseline - will help to remove programme ambiguity and bring the Programme’s management into a more controlled and predictable delivery mode <ul style="list-style-type: none"> Round 3 plan consultation commenced as planned on 14-Dec-22 Round 3 responses final deadline is 31-Jan-23 	Previous RAG	Amber (5 Risks)
			Current RAG	Amber (3 Risks)

		- Key Risks																											
Risk ID	Risk Description	Risk Score Assessment																				Score movement since last PSG	Mitigation Plan						
		Critical					High					Medium					Low												
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11			10	9	8	7	6	5
R025	There is a risk that the re-baselined plan extends timescales significantly	Red					Yellow					Yellow					Green					No change	<ol style="list-style-type: none"> Get clarity on the delivery plans for parties developing core capabilities required for SIT (Central Parties + St Clements / LDSOs) to define the critical path more clearly Build and consult on a Round 3 plan with clarity on the critical path to SIT and an agreed migration / go live approach, and requiring participants to provide their plans to complete their DBT Publish and manage the updated interim programme plan for the period leading up to the re-baselined plan being approved 						
R069	There is a risk that there may be additional cost implications for Programme parties due to programme replan / delays or change in direction	Red					Yellow					Yellow					Green					+5 (15 to 20 current)	<ol style="list-style-type: none"> Manage Round 3 responses and outcomes Ofgem to consider any CR resulting from the re-planning activity (including PP impact assessments) Ofgem CR approval process 						
R224	There is a risk that the credibility of the re-baselined plan is low because we get very few responses to the consultation	Red					Yellow					Yellow					Green					New risk	<ol style="list-style-type: none"> Clear and explicit Round 3 consultation questions with accessible and clear artefacts Targeted PPC support and engagement aimed at early adopters Playback sessions 						

Items can be raised to the Programme RAID log using the [RAID input form](#). Please refer to the Programme [Digital PMO \(DPMO\)](#) to see Programme risks in more detail

Key	
I	Initial Score
C	Current Score
T	Target Score

Risk theme 4: External factors which may influence the Programme

Theme	Summary	Mitigation Approach Overview	RAG Status	
External factors which may influence the Programme	External risks capture scenarios from Net Zero escalation, to consumer behavior, industry impacts and government restrictions. External risks are often accepted, due to the Programme's lack of control over these factors, but contingency plans can be put in place in the case they become an issue	<ul style="list-style-type: none"> Risk mitigation for this theme involves close monitoring of factors outside of the Programme, including regular communication with parties such as Ofgem, and monitoring the impacts where consumer behaviour may have on the Programme, and how industry changes align with what MHHS is seeking to achieve These risks are revisited through touchpoints with risk owners and through existing forums where mitigations are discussed, updated and actioned 	Previous RAG	Amber (9 Risks)
			Current RAG	Amber (9 Risks)

		Key Risks																														
Risk ID	Risk Description	Risk Score Assessment																Score movement since last PSG	Mitigation Plan													
		Critical				High				Medium				Low																		
		30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15			14	13	12	11	10	9	8	7	6	5	4	3	2
R066	There is a risk of Government pressure to unduly accelerate progress on Net Zero programmes																														New item	1. Careful stakeholder management of external parties and regular communication / interaction with Ofgem to ensure parties are fully informed as needed
R211	There is a risk that consumer behaviour could lead to bias within Load Shapes as uptake of EVs etc. increases. Bias may impact consumers settling against load shapes																														New item	1. Initial session to be held to understand the mechanisms by which Load Shape performance could be monitored
R215	There is a risk that the OFGEM Price Cap calculation model does not align to MHHS methodology (this was raised by PPs)																														New item	1. Programme to seek clarity on approach for defining price cap calculation following MHHS go-live
R052	There is a risk that government restrictions due to civil disruption cause a pause in the programme (e.g., pandemic, wide spread flooding or excess heat, mass starvation etc.)																														New item	1. Risk accepted at this stage and will be addressed if issues materialise 2. The detailed plan review will factor in a number of control points which will allow pause contingency which could be utilised if required 3. Ensure the programme continues to be able to operate virtually, including sufficient IT capability and online tools to allow this successfully
R015	There is a risk that Covid could have a significant impact on the programme team, if parties cannot implement working arrangements for their staff that suit their needs (e.g., remote working or hybrid remote / office working)																														New item	1. This is a responsibility of each party to address – but the programme should periodically review this risk, for example through PPC activities and formally state their ongoing view of this risk level 2. All teams should have clear succession plans - with nominated deputies who are given opportunities to deputise, thereby building resilience into team operations

Items can be raised to the Programme RAID log using the [RAID input form](#). Please refer to the Programme [Digital PMO \(DPMO\)](#) to see Programme risks in more detail

Key	
I	Initial Score
C	Current Score
T	Target Score

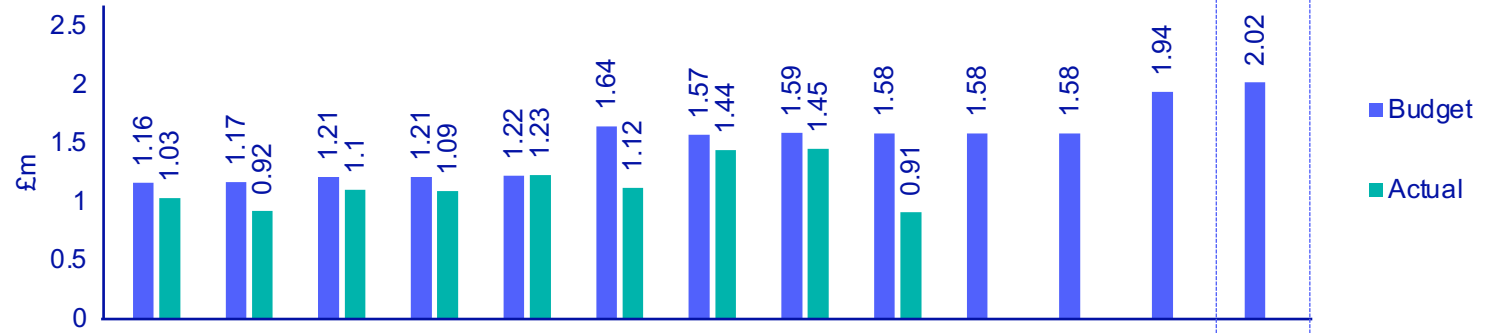
Headline: December Actual below Forecast due to holiday period resulting in lower costs from LDP and IPA.

2022/23 overview

The current year's forecast remains at £19.5M

- The DIP estimate will be validated once the contract is awarded late in Q3. This is the key risk to spend this financial year
- The re-plan presents the biggest risk to the overall Programme budget and will be resolved following completion in Q4 22/23
- Due to the uncertainty mentioned above, the April to August underspend has been added to the contingency.

2022/23 budget vs actual



	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22	Jan 23	Feb 23	Mar 23	Contingency	Total
22/23 budget (£M)	1.16	1.17	1.21	1.21	1.22	1.64	1.57	1.59	1.58	1.58	1.58	1.94	2.02	19.47
Forecast (£M)	1.27*	1.17*	1.18*	1.24*	1.22*	1.63*	1.29*	2.37*	1.12*	1.76	1.82	2.20	3.41	19.47
Actual (£M)	1.03	0.92	1.10	1.09	1.23	1.12	1.44	1.45	0.91					

- *: forecast for historic months is the forecast as presented at the previous month's PSG
- This dashboard includes MHSP Central Programme costs only. This includes IPA and LDP resource and the DIP

Ref.	Key Detail	Change Raiser(s)	Change Type	Decision	Status	Action <i>If approved</i>	Change Owner(s) <i>If approved</i>
CR012	Increase in scope of CCAG ToR and code drafting activities to include consequential change	Sarah Jones, RECCo	Full Impact Assessment	PSG approved (07/12/22)	Complete	Updated MHHS Governance Framework	MHHS Programme (Jason Brogden)
CR013	Determining scope of Examination of Settlement Impacts resulting from MHHS Programme	Gareth Evans, I&C Supplier Constituency	Full Impact Assessment	PSG to review Impact Assessment report (01/02/23)	Open		
CR014	Changes to the baselined LSS design	Matt Hall, Elexon (Helix)	Full Impact Assessment	Change Board to validate change (24/01/23)	Open		

This slide captures Change Requests raised in the last four months. A full record of all MHHS Change Requests can be found on the [Change Control page of the Collaboration Base](#)



Status Summary

Code drafting started as planned on 3rd January for Data Services and Metering Services.

RECCo have shared their initial Metering Services drafting with Code Bodies for review (BSC & DCUSA).

MHHSP plan to share their Data Services drafting on 27th January for internal review.



February Deliverables

- Questions and optionality will be taken to CDWG on 7th February
- Data Services and Metering drafting to be completed
- Consultation on Data Services and Metering on 14th February
- Begin drafting Registrations and Interfaces topic area



Risks

#	Risk or Issue	Mitigation Plan	RAG
R356	There is a risk associated if the Qualification Testing Approach & Plan document has not been approved, in time for the Qualification code drafting which could cause delays to the programme in drafting Qualification code	Update: BSC Section C obligations force participants to execute qualification in accordance with the Qualification Plan. This is currently in development and doesn't require BSC MHHS Programme drafting	Medium Risk
R357	There is a risk that if M6 is delayed, Qualification SAD process will be delayed / length of time shortened for procedural elements of Qualification before Migration start.	Monitor M6 and impact on the overall plan	Medium Risk
R355	There is a risk that Consequential Change solutions are not approved by responsible parties in advance of the associated Code Drafting topics being started	If consequential code changes are not submitted within the code drafting plan timescales (August 2023) Code bodies will miss the consequential code change consultation and can raise a change request to bring the items back into programme scope	Medium Risk
R202	There is a risk that Programme testing may identify changes to baselined code and require code updates and further code releases after initial code changes have been approved	The CCAG has/will consider their approach to reviewing and updating code, should the design change e.g., maintaining working groups on stand-by A change request will be needed to update the baseline code	Medium Risk

Drafting Milestones	Target date*	Forecast date	Status
Data Services approved at CCAG	26/4/23	26/4/23	Green
Metering Services approved at CCAG	26/4/23	26/4/23	REC
			BSC
Interfaces/Data Specification approved at CCAG	28/6/23	28/6/23	Green
Registration approved at CCAG	28/6/23	28/6/23	Green
Governance and Qualification approved at CCAG	23/8/23	23/8/23	Green
BSC Central Services approved at CCAG	23/8/23	23/8/23	Green
Consequential Change approved at CCAG	25/10/23	25/10/23	Green
Transition Text approved at CCAG	25/10/23	25/10/23	Green
Topic Area Mop Up approved at CCAG	24/1/24	24/1/24	Green
Finalise and consistency check approved at CCAG	27/3/24	27/3/24	Green
Code changes baselined (M6)	4/4/24	4/4/24	Green
Smart Meters Act powers enabled (M7)	6/12/24	6/12/24	Green
Code changes delivered (M8)	7/3/25	7/3/25	Green

*dates subject to Programme Replan

Discussion summary from this month’s Advisory Groups

Design Advisory Group (DAG)

Updates from DAG 11 January 2023

1. **Actions Review:** An in depth review of outstanding actions was undertaken, with updates provided on the approach to performance assurance requirements, implementation of the Enduring Design Hub, and classification of the Meter Point Registration Service (MPRS) as a central system.
2. **M5 Work-Off Plan:** Updates were provided on the M5 Work-Off Plan and the Programme Change Requests needed to facilitate impact assessment of options for work-off items D-012 (E7/E10 settlement differential) and D-013 (registration service operating hours)
3. **Post M5 Design Change Procedure:** The DAG approved the draft procedure and draft Design Authority (DA) Terms of Reference, subject to amendments. The DA will be responsible for reviewing design issues and agreeing minor changes to design artefacts. The DA is a closed group with industry representation appointed by DAG constituency representatives.

DAG meeting content available [here](#)

Cross-Code Advisory Group (CCAG)

Update from CCAG 21 December 2022

1. **Horizon Scanning** – Code Bodies updated against their relevant code modifications
2. **CR012 outcomes** – The CCAG discussed next steps for consequential change code drafting following approval of CR012 by the PSG
3. **Round 3 replan** – The Programme provided an overview of the code draft plan as per Round 3 of consultation on the Programme plan. The Programme highlighted how this had change since Round 2.
4. **Prototyping update** – RECCo provided an update on Sprint 2 of prototyping activity. A traceability matrix had been created to track design artefacts to the code drafting topic areas
5. **CCAG reporting** – The Programme gave provided a new monthly status update. Code drafting progress was on track as per the code draft plan
6. **CDWG update** – The Programme updated on activity at the December CDWG and the agenda items for January

CCAG meeting content is available [here](#)

Testing and Migration Advisory Group (TMAG)

Update from TMAG 18 January 2023

1. **Qualification update** – The Programme updated on qualification activity taking place with Code Bodies and the Qualification and E2E Sandbox Working Group (QWG)
2. **Migration and data deliverables** – The Programme provided an overview of the forward plan for baselining two deliverables and the content of the deliverables (Data Assessment Report and Migration, Cutover and Data Strategy)
3. **SITWG update** – The Programme update on activity at the SITWG, including on content relating to SIT scope that would be discussed at an extraordinary SITWG on 24 February
4. **NFTWG** – The programme updated on the purpose and plan for mobilising a Non-Functional Testing Working Group (NFTWG) in February

TMAG Headline Reports are available [here](#).

Level 3 Advisory Groups – Agenda forward look

Advisory Groups (2 of 2)
Updated to 25/01/23

Design Advisory Group (DAG)	Meeting date	11-Jan	08-Feb	08-March	12-Apr
	Agenda items	<ul style="list-style-type: none"> Work-Off Plan Updates Post-M5 Design Change Management CCIAG updates 	<ul style="list-style-type: none"> Design changes for approval DAG ToR review Migration design updates 	<ul style="list-style-type: none"> Design changes for approval Migration design updates 	<ul style="list-style-type: none"> Design changes for approval
	Standing items	<ul style="list-style-type: none"> Minutes and actions Summary and next steps Programme updates 	<ul style="list-style-type: none"> Minutes and actions Programme updates CCIAG updates Summary and next steps 	<ul style="list-style-type: none"> Minutes and actions Programme updates CCIAG updates Summary and next steps 	<ul style="list-style-type: none"> Minutes and actions Programme updates CCIAG updates Summary and next steps
Cross-Code Advisory Group (CCAG)	Meeting date	25-Jan	22-Feb	22-Feb	26-Apr
	Agenda items	<ul style="list-style-type: none"> Consequential Change Code Drafting Round 3 Replan Consultation Code drafting activity agenda items as required Code drafting collaboration base 	<ul style="list-style-type: none"> Code drafting activity agenda items as required Code drafting consultation process as required 	<ul style="list-style-type: none"> Code drafting activity agenda items as required Code drafting consultation process as required 	<ul style="list-style-type: none"> Code drafting activity agenda items as required Code drafting consultation process as required
	Standing items	<ul style="list-style-type: none"> Minutes and actions Programme updates Horizon scanning log CDWG update Code draft reporting 	<ul style="list-style-type: none"> Minutes and actions Programme updates Horizon scanning log CDWG update Code draft reporting 	<ul style="list-style-type: none"> Minutes and actions Programme updates Horizon scanning log CDWG update Code draft reporting 	<ul style="list-style-type: none"> Minutes and actions Programme updates Horizon scanning log CDWG update Code draft reporting
Testing and Migration Advisory Group (TMAG)	Meeting date	18-Jan	15-Feb	15-Mar	19-Apr
	Agenda items	<ul style="list-style-type: none"> Qualification update Migration and data deliverables Test Data Approach and Plan SITWG update NFTWG mobilisation 	<ul style="list-style-type: none"> Test Data Approach and Plan Approval Data Assessment Report part 1 approval Environments Approach and Plan review NFTWG mobilisation 	<ul style="list-style-type: none"> Review of E2E Testing & Integration Strategy (scheduled after the replan and other documents have been baselined) 	<ul style="list-style-type: none"> Migration, Cutover & Data Strategy approval CIT & Functional Test Approach and Plans approval Data Assessment Report part 2 approval
	Standing items	<ul style="list-style-type: none"> Minutes and actions review Programme updates Working group report Next steps and agenda roadmap 	<ul style="list-style-type: none"> Minutes and actions review Programme updates Working group report Next steps and agenda roadmap 	<ul style="list-style-type: none"> Minutes and actions review Programme updates Working group report Next steps and agenda roadmap 	<ul style="list-style-type: none"> Minutes and actions review Programme updates Working group report Next steps and agenda roadmap



DBT Readiness and Mobilisation

- M3 has been conditionally passed, with the condition being that participants provide evidence of their delivery plans in Replan Consultation Round 3. The PPC Team has been briefing participants on this requirement in bilaterals, and this has been positively received by participants to date.
- The Readiness Assessment 2 (RA2) Overall Report and 94 Individual Reports have been drafted and finalised. These will be sent to Programme participants by 29 November at the latest.
- The PPC Team has also worked with the Migration Team to drive engagement with the Migration PPIR. This has resulted in 21 responses, received by the closing date of 18 November.



SIT Readiness

- **52%** of RA2 responders indicated that they plan to be a participant in SIT. These were relatively evenly spread across all Constituencies, with at least 2 participants planning to take part from each constituency (except 'Other').
- In terms of the information that Participants wanted before making a decision about SIT, this was mostly around the scope, plan and benefits of SIT. The implications of SIT for qualification was also raised several times.
- **Next steps:** PPC team to discuss SIT readiness with participants in bilateral meetings.



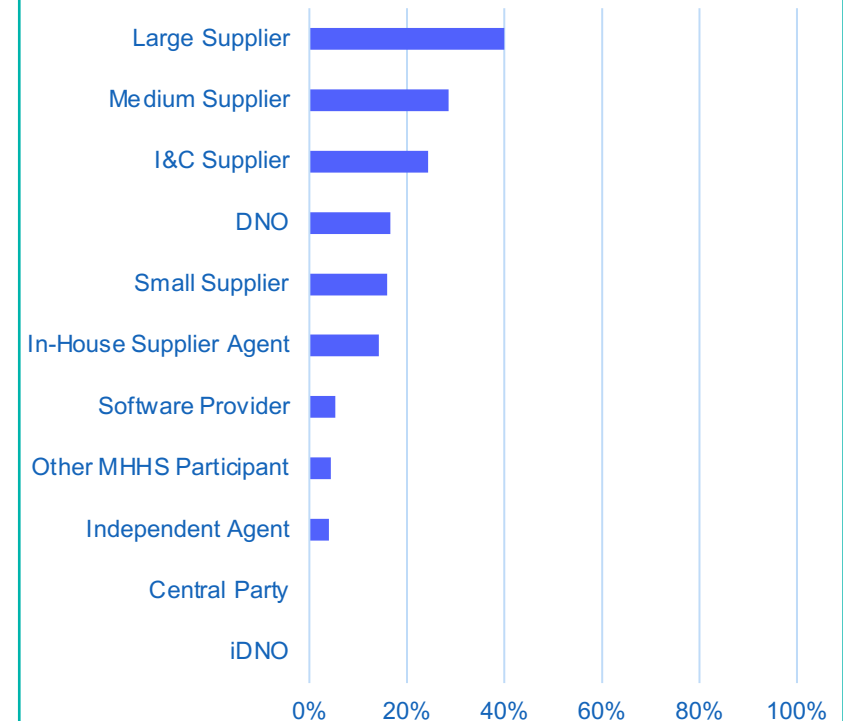
Communications channels

- The PPC team provides ongoing management of the Collaboration Base.
- There are over **751** users of the Collaboration Base and **52%** logged in the month of October.
- The PPC team seek feedback from participants in bilateral conversations.
- **Next steps:** Team to analyse results of a survey sent to Participants about the website and Collaboration Base and make changes accordingly.

Participant Engagement by Constituency

The PPC team held **24** bilateral meetings with Participants this month. The chart below shows the percentage of these Participants in each Constituency that were met.

% Participants met, by Constituency



Dashboard Objective: To provide PSG with a progress update on in-flight and future planned assurance activities. Assurance themes and agreed actions will be shared with PSG on a quarterly basis with specific Work Package (WP) assurance reports shared in the lead up to key milestones.



Assurance Activities in Progress / Completed during month

Theme-Based Assurance

- **Ongoing Embedded Assurance Activities (WP1)** - Monthly cadence of interactions with MHHSP to support embedded assurance - **In Progress - Reviewing assurance Work Packages and timings in line with the Programme Re-plan**
- **MHHS Programme Plan (WP3)** - Embedded assurance in programme re-plan activity - **In Progress - IPA interim report drafted and being discussed with the Programme as part of the Round 3 Plan Consultation**
- **Design Documentation (WP4)** - Embedded assurance in design activity - **In Progress - IPA report on design work-off plan being drafted**
- **Assure Readiness for PIT (WP9)** - Embedded assurance in testing activity - **In Progress - Terms of Reference for assurance activity under development**

Stage-Based Assurance

- **Market Participants' Readiness for D&B (WP8)** - Assurance review of Readiness Assessment 2 - **Complete - Forward recommendations and actions being discussed and agreed with the Programme**



Upcoming Assurance Activities

Theme-Based Assurance

- **Assure Readiness for SIT (WP10), System Proving (WP11) & Completion of Migration (WP13)** - Assurance activities to commence in 2023/24 in line with re-plan
- **Revision of the Independent Programme Assurance Framework and assurance plan** - To be reviewed and updated following baselining of the Programme Re-plan



Assurance Action Status

- **IPA Actions / Recommendations are being logged and tracked on a weekly basis through the MHHSP Quality Manager**

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	Progress last month: • MDR Only design work commenced	Progress expected in the coming month: • Market-wide Half Hourly Settlement (MHHS) Industry Summit (FEB) • Final costs presented following FIAs from SP's, expected end Jan/early Feb. • Final consultation response from DCC on Programme Replan due end of Jan.
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Ofgem approval	25-10-22	28-11-22
MP162 DBT complete	15-05-23	15-05-23
MP162 SIT complete	15-09-23	15-09-23
MP162 MDR UIT Start	17-07-23	17-07-23
MP162 Go-LIVE	20-06-24	20-06-24

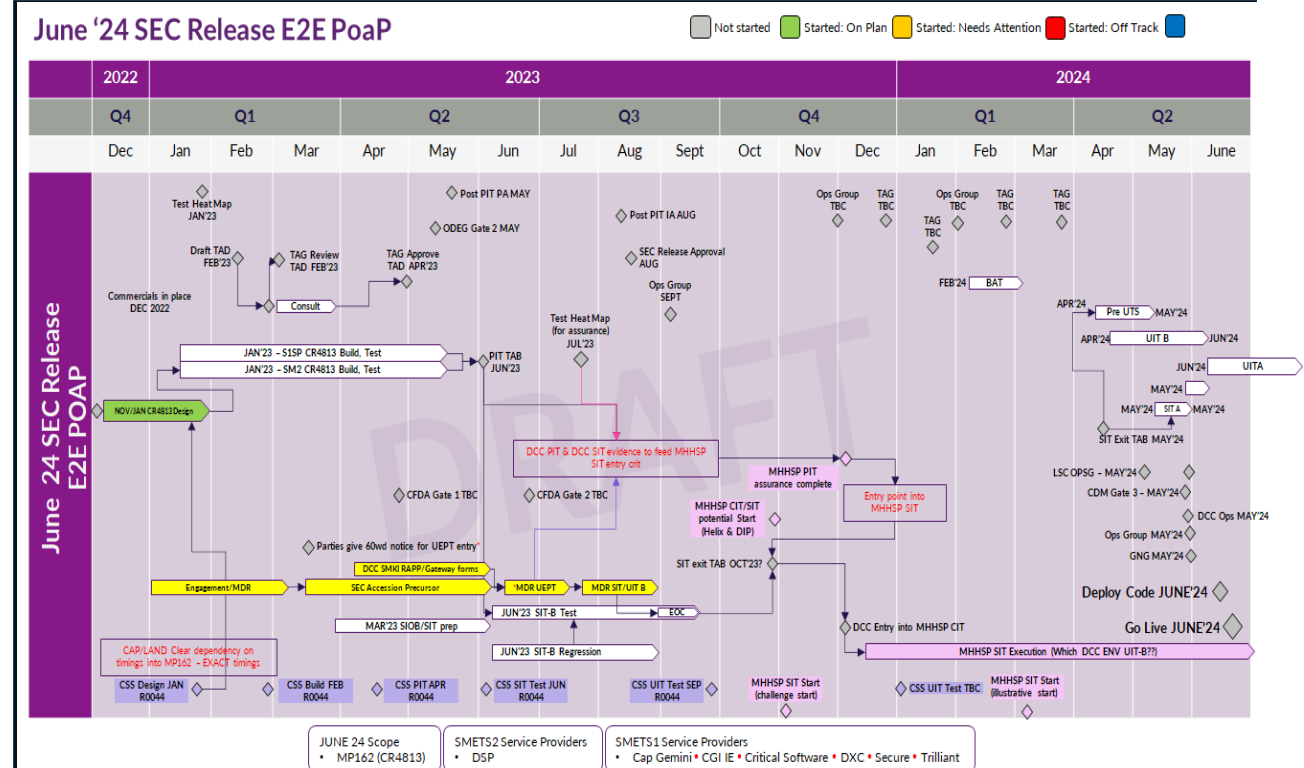
Decisions required	From whom?	By when?
None	n/a	n/a

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Interface Spec from R0044 is not ready for the start of MDR DB-PIT DCC testing.	Monitor, closely, the Landmark and Netcompany delivery of interface spec to ensure agreed milestones are met.	31-01-23	DCC

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
DSP Programme baselines against MP162/MHHS Programme requirements and go-live	Programme changes to be checked back against DSP Programme Assumptions	31-10-23	MHHSP

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
New MDR Party available for UIT testing	Liaise with MHHS Programme on upcoming parties	01-07-23	MHHSP
Switching RECMOD R0044 is complete	DCC Internal programme liaises with REC Manager for delivery into MHHS	31-01-23	DCC/REC Manager
Registration data design	DCC need visibility and greater clarity on how MDR and SDS registrations will be modelled	31-01-23	MHHSP

UEPT Alignment	SECAS/UEPT processes are aligned and ready to support POAP timings	27-01-23	DCC/SECAS
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RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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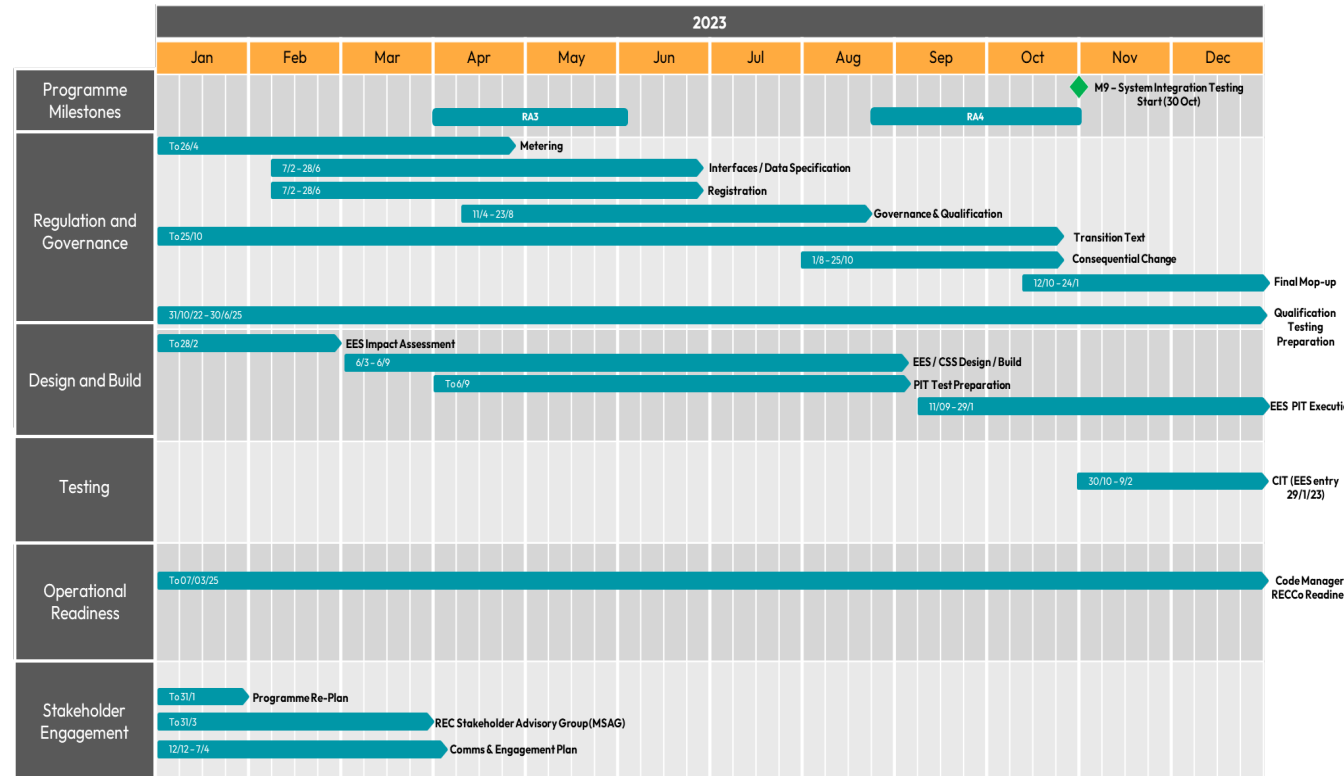
Status & Outlook	Progress last month: <ul style="list-style-type: none"> Detailed impacted assessment received 13/1 from C&C for EES MHHS changes. Analysis/clarification in progress. Ongoing engagement with Elexon to agree roles, responsibilities and timescales for market qualification. Replan consultation #3 analysis, and internal replan based on updated dates and timescales. Assurance review on final updates to design artefacts. 2023/2024 RECCo budget requirements submitted to internal Finance team 	Progress expected in the coming month: <ul style="list-style-type: none"> Response to Replan Consultation #3 will be submitted by 31/1 Ongoing engagement with programme on Qualification / Design work-off plan EES Detailed Impact Assessment completion Code Drafting: <ul style="list-style-type: none"> Metering – Complete code drafting/internal review and submit for industry consultation Registration –Start Code Drafting
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
EES DBT Start	01/03/2023	01/03/2023
EES SIT Entry (CIT)	29/01/2024	29/01/2024
Code Drafting Complete	04/04/2024	04/04/2024
Code Drafting Implemented	07/03/2025	07/03/2025
RECCo Readiness	07/03/2025	07/03/2025
GO LIVE	07/03/2025	07/03/2025

Decisions required	From whom?	By when?
Decision on RECCo role in Qualification	MHHS Programme	?
Decision on allocation of Market Role codes in ISD for new and existing services to complete detailed impact assessment.	MHHS Programme	31/01/2022

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
[Issue] No consistent understanding between the programme, Elexon and RECCo on the roles and responsibilities for UIT and Qualification. The prog. has made assumptions that code bodies will be fully responsible for the operation and delivery of the MHHS UIT test phase	Tri-partite meetings established to agree roles and responsibilities. Initial meeting held 12 th December and regular meeting cadence now ongoing.	January '23	Programme
Change to interface code drafting timescales in Round 3 consultation cannot be delivered in proposed timescales.	Issue has been raised with the Programme and will be detailed in Round 3 consultation response.	February '23	Programme

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Transition Approach and associated design artefacts	Engagement in MDSG and MWG	March '23	Programme
Re-baselining of Programme Plan	Response to Round 3 Replan Consultation	January '23	Programme
Changes to REC services not in scope of MHHS design	Completion of Consequential Change items.	February '23	RECCo



RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	Progress last month: <ul style="list-style-type: none"> PI 5 is making good progress with the mid PI review on the 27th Jan All the Helix teams have been working on the response to re-plan 3. The team that has been impacted The PAF team has been created and held their first PI planning session Team for Code review created 	Progress expected in the coming month: <ul style="list-style-type: none"> PI5 is progressing and is currently in sprint 3, progress across the teams is mixed as some were impacted more by the holiday period than others. Through the remaining sprints the trailing teams are expected to catchup to their PI goals Finalise the Plan 3 response for the 31 Jan. Mid PI solution demo Commence planning for the next PI iteration CR 14 is being presented at the planning board 24 Jan 23, and forms the basis of the plan.
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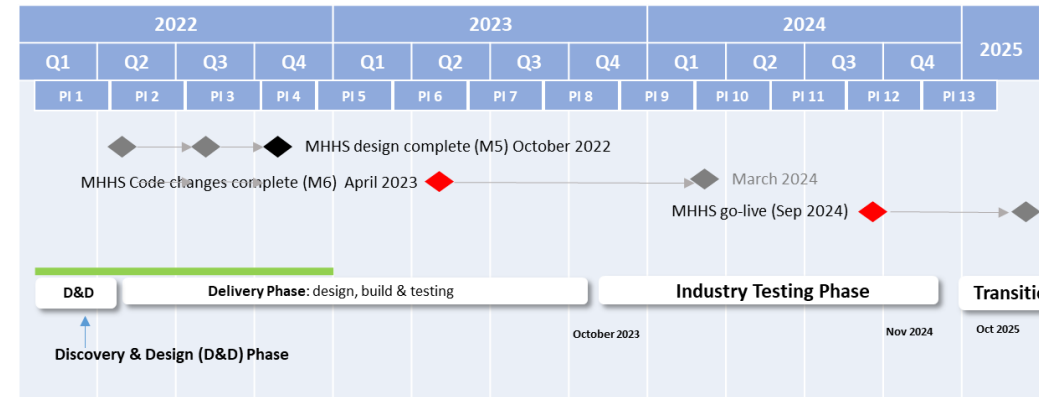
Party Milestones & Deliverables	R3 Target Date	Forecast date & RAG
Programme mobilised	17/01/22	Complete
Discovery & Design phase	22/04/22	Complete
Delivery phase start	20/04/22	Complete
Delivery phase ends (DBT End)	29/09/23	In Progress
Industry phase starts (CI Starts)	30/10/23	Not started
Industry phase ends (SIT End)	07/02/25	Not started
Helix changes go-live (M10)	07/03/25	Not started
Transition phase starts (M11)	04/04/25	Not started
Transition phase ends (M15)	05/10/26	Not started

Decisions required	From whom?	By when?
CR 14 to be approved	MHHS change board.	24/01

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Additional legacy test environments could be needed for industry testing	Review the impact of the re-plan on the rest of the Portfolio. Portfolio Working Group - 31/01/23 Work with TMAG to develop a test environment plan.	31/01/23	
There is a risk of further change.	Implementation of a MHHS programme change control process when changes are essential	28/02/23	
There is a risk that the revised code documents are produced under pressure to meet a deadline and as a result are of poor quality.	Work with the Code authors to ensure quality documents are produced.	03/02/23	

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
SIT will commence at the end of October.	Reviewing Plan 3 to align with this date	31/01/23	

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Migration design to be provided as early as possible but is needed for PI 6.	Encourage the delivery of the transition design and ensure the impacts are understood. Work on potential contingency plans	24/02/2023	
Work off items and CR approved by end Jan	Working with the MHHS Programme to finalise.	31/01/2023	
Transition design artefacts required before PI 6 can commence	Encourage the delivery of the transition design and ensure the impacts are understood. Work on potential contingency plans	24/02/2023	



The above timeline is still in review and will be confirmed as part of re-plan Round 3

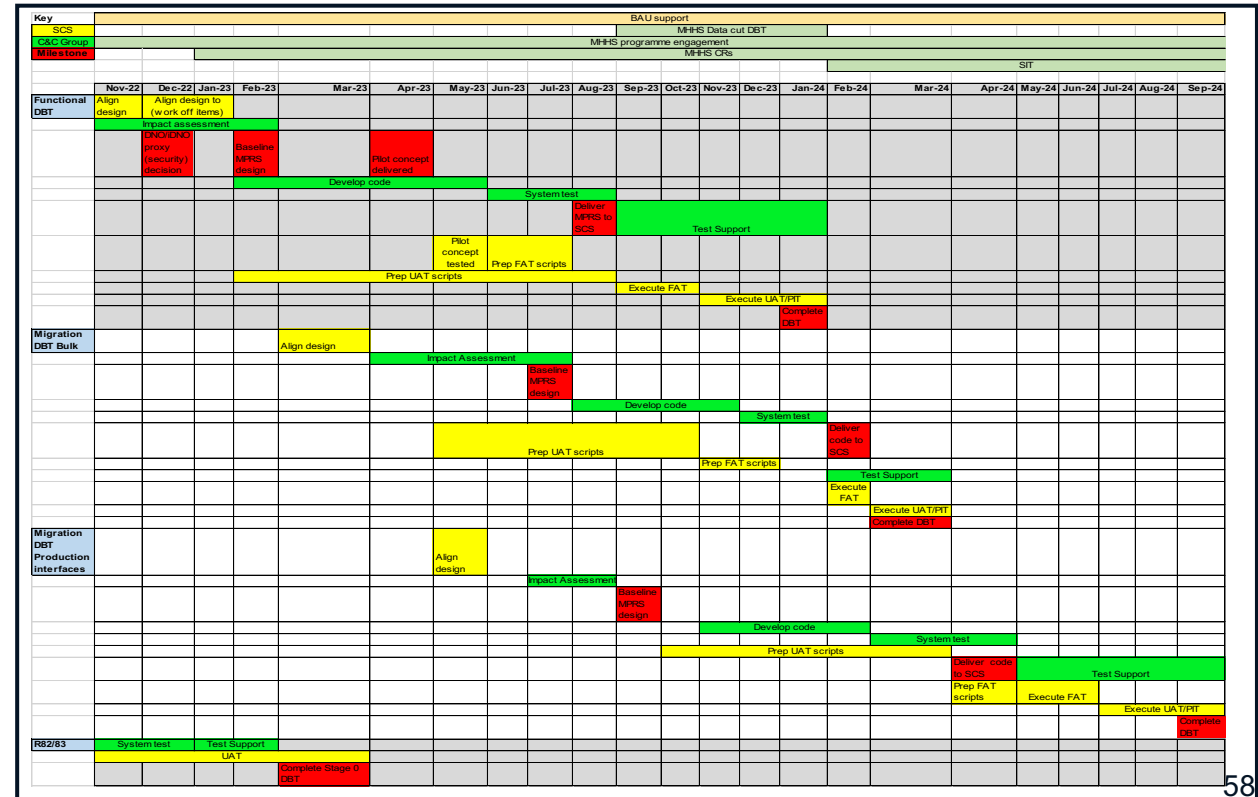
RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers
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Status & Outlook	Progress last month: <ul style="list-style-type: none"> Planning discussions with MPRS SSP (C&C Group) Providing list of unresolved design issues raised with the programme Reviewing and highlighting 'gaps' in work off items DNOs decision to use an adapter confirmed Continued testing tranche 2 of MPRS stage 0 Responded to replan 3 MPRS Proof of Concept demonstrated 	Progress expected in the coming month: <ul style="list-style-type: none"> Complete testing of MPRS stage 0 tranche 2 Receive code for MPRS stage 0 tranche 3 Impact assessments by SSP Planning discussions with MPRS SSP (C&C Group) Develop waterfall/agile hybrid development plan Review detail of work off items that impact MPRS
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Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Detailed plans for design and build	31-03-23	31-03-23
Detailed plans for PIT	31-03-23	31-03-23
PIT exit	31-01-24	31-01-24

Decisions required	From whom?	By when?
What is needed for CIT? MPRS or adapter/s	Programme should decide about potential use of an adapter in CIT	28-02-23
24/7 operation	Programme/DNOs to agree approach for next steps	31-01-23

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Work Off Plan contains items that impact MPRS design/delivery	Work off items impacting MPRS resolved quickly - ongoing	31-01-23	Programme
Assessing impact of migration design	Design being developed. May impact delivery plan	31-03-23	Programme
MPRS high level plan needs extending following detailed IA	IAs performed during hybrid waterfall/agile delivery approach	31-01-23	SCS
Is the role of SCS recognised correctly by the programme?	Programme and SCS to resolve apparent mismatch	30-11-22	Programme/SCS
24/7 operation decision on wider SCS/DNO programme test phases and enduring operation	Do the programme test phases need modifying to reflect the potential change to 24/7 operation?	31-01-23	Programme
Insufficient review time allowed for artefacts (<4 days for WO item)	Rushed reviewing of artefacts could lead to misunderstanding	28-02-23	Programme
Lack of response to design issues raised with programme	Prompt Programme response otherwise incorrect design assumptions may be made	31-01-23	Programme
Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
MPRS high level plan broadly remains following detailed IA	Detailed IA to complete	30-04-23	SCS
Work off plan items resolved	Deliver work off items	31-12-22	Programme
Programme governance does not impact MPRS delivery activities	Light touch and targeted approach	30-11-22	Programme
Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Dependency on Programme to confirm decisions on above	Prompt responses and decisions required		



Overarching Costs for MHHS Central Parties FY 22/23

£M	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
MHHS Budget	1.16	1.17	1.21	1.21	1.22	1.64	1.57	1.59	1.58	1.58	1.58	3.96*	19.47
MHHS Actual/Forecast	1.03	0.92	1.10	1.09	1.23	1.12	1.44	1.45	0.91	1.76	1.82	5.61*	19.48
DCC Budget	0	0	0	0	0	0	0	0	0	0	0.52	0.52	1.04
DCC Actual/Forecast	0	0	0	0	0	0	0	0	0	0	0.52	0.52	1.04
Helix Budget	1.02	2.01	1.75	1.94	2.13	2.12	2.07	2.21	1.74		2.81		19.80
Helix Actual/Forecast	0.96	1.98	1.82	1.52	1.95	1.85	2.07	2.21	1.74		2.95		19.05
RECCo Budget	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.45
RECCo Actual/Forecast	0	0	0.00	0.01	0.03	0.02	0.01	0.05	0.03	0.03	0.03	0.03	0.24
Total Budget	2.24	3.24	3.02	3.18	3.38	3.79	3.67	3.83	3.35		11.06		40.76
Total Forecast/Actual	1.99	2.90	2.92	2.62	3.21	2.99	3.52	3.71	2.68		13.27		39.81

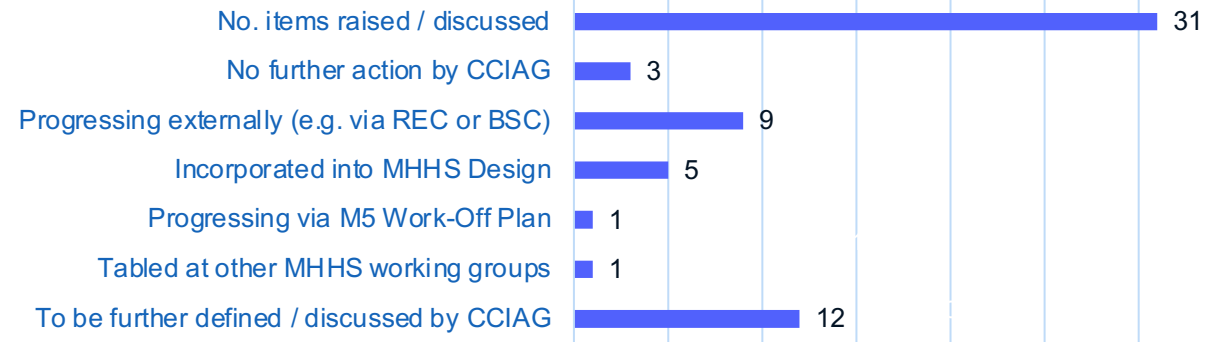
Please note:

- * : Includes contingency
- RECCo and DCC costs include only 3rd party costs (do not include internal resources)
- Helix actuals shared to September and budget is approved to mid-March to the end of PI5. Total Budget for specifically Helix costs for the year amounts to £16.2m, with £3.6m specifically for SVAA re-development.
- DCC data subject change alongside MP162 progression

Consequential change: Summarises activity at the Consequential Change Impact Assessment Group (CCIAG)

CCIAG metrics

The following graph summarises the status of consequential change topic under discussion at the CCIAG:



The latest CCIAG meeting papers and headline reports can be found [here](#).

Updates from CCIAG

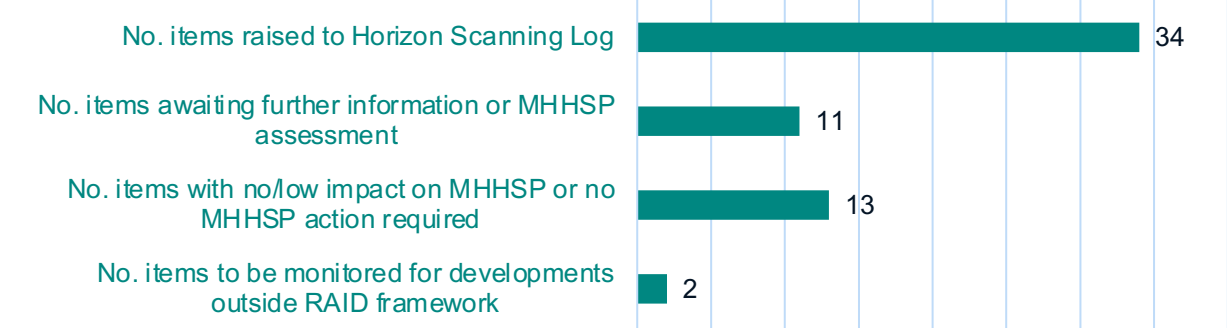
At the December CCIAG the group agreed to the addition of a new field within the [Consequential Change Log](#) to denote whether a given item is likely to require inclusion within CCAG-led code drafting following the approval of Programme [Change Request 12](#). For a consequential change item to be agreed for inclusion in CCAG-led code drafting, a Code Body must warrant the change is required to deliver MHHS and would otherwise require a standalone change to the relevant code, and it is therefore beneficial to include it within the CCAG's code drafting activities. Where solution development is required, this will be undertaken within respective code change development processes and the agreed solution then incorporated into CCAG-led code drafting. The Code Drafting Working Group will consult on all code drafting, and Code Bodies are expected to consult industry on any solution development as required. A deadline of 31 January 2023 has been set for the submission of items to be considered for inclusion in CCAG-led code drafting activities.

Magnitude of items

No matters have yet been raised which require significant change to MHHS Design Artefacts. Most items agree for inclusion within the MHHS design or CCAG-led code drafting relate to REC supplier-related processes. The volume of new items for discussion from Code Bodies and Central Parties has increased ahead of the deadline for consideration as part of CCAG-led code drafting.

Industry horizon scanning: Summarise items monitored via the Cross-Code Advisory Group (CCAG) horizon scanning process

The following graph summarises items being monitored via the Programme's horizon scanning process



More information can be found via the [CCAG meeting papers](#)

Horizon Scanning Process

The CCAG collaborate to populate the Horizon Scanning Log and the Programme undertakes impact assessment of each change. Where a change requires actions by the Programme beyond simple monitoring or initial definition, this is entered into the Programme RAID framework with an appropriate action plan and owner put in place.

Industry code changes: 29 – REC: 12, BSC: 8, SEC: 4, DCUSA: 5

Wider industry changes: 5 – HH opt-out, DUoS SCR, code review, microbusiness def

Criticality of horizon scanning items – High: 5, Medium to High: 3, Medium: 2, Low: 13

Top RAID linked items:

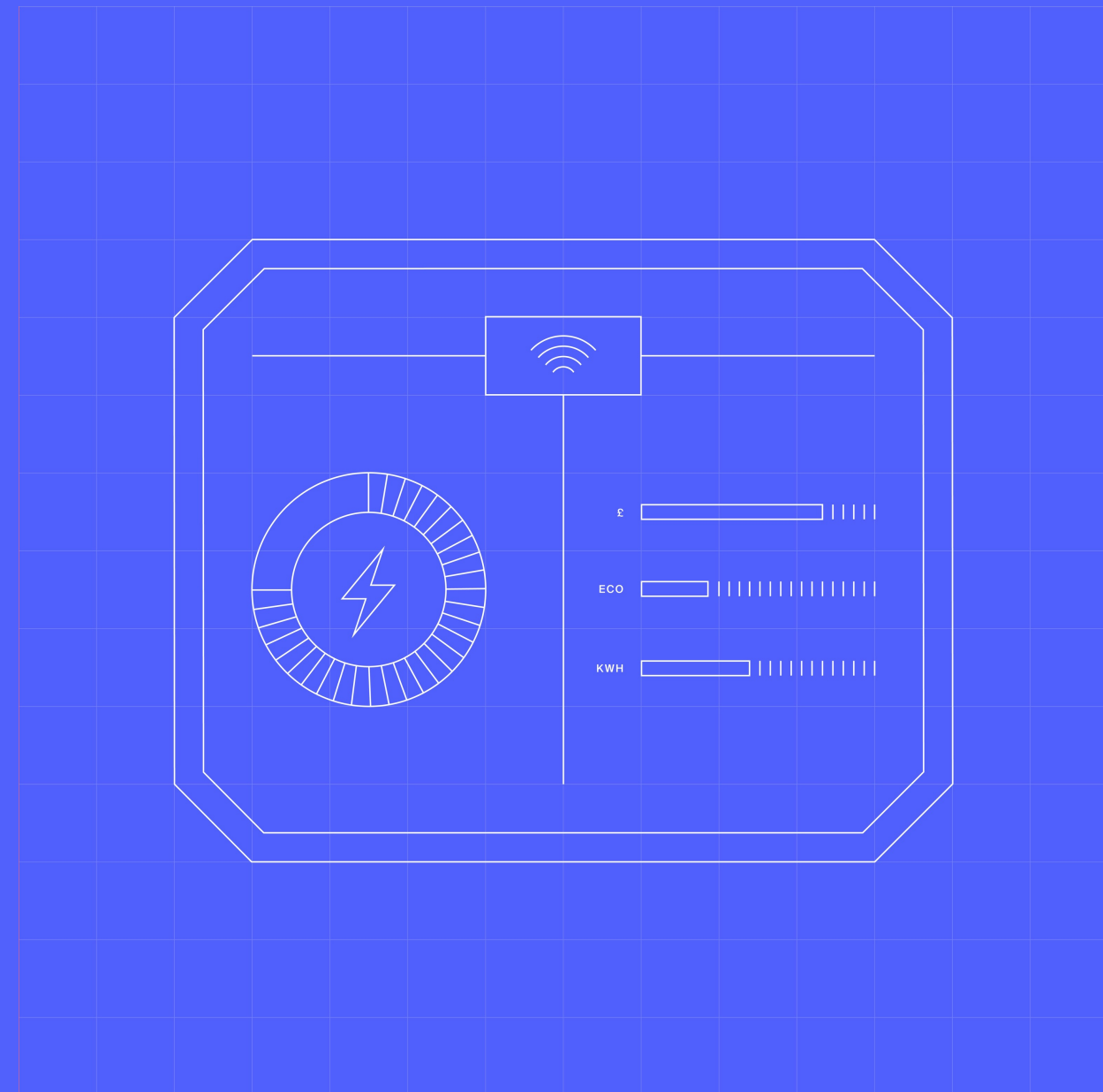
- **SEC MP162** (R0011, R0083, R0113, R0115, R0116, R051, R0182, R0191, D0076, D0077)
- **BSC CP1558** (R0200, D0068) • **REC R0032** (D0068, D0069) • **REC R0044** (D0055)

Summary and next steps

INFORMATION: Summarise actions and decisions.
Look ahead to next meeting

Chair and Secretariat

5 mins



Summary and next steps

1. **Confirm actions and decisions from meeting**
2. **Date of next PSG:**
 1. **01 March 2023 10:00 - 12:00** – this will be an in person meeting
 2. **07 March 2023** – **extraordinary PSG** to be scheduled for the Programme Replan Change Request

Main agenda items

- Programme replan status (including Change Request) and SIT responders/non-responses
- SIT outlook (Core Capability Providers and the MVC) and establishing a delivery forum for SIT volunteer PMs
- Governance decision - the future of TMAG and splitting Test and Migration
- M3 unconditional approval
- Presentation of LDSO delivery plans
- Qualification testing update from Elexon
- Migration Design update

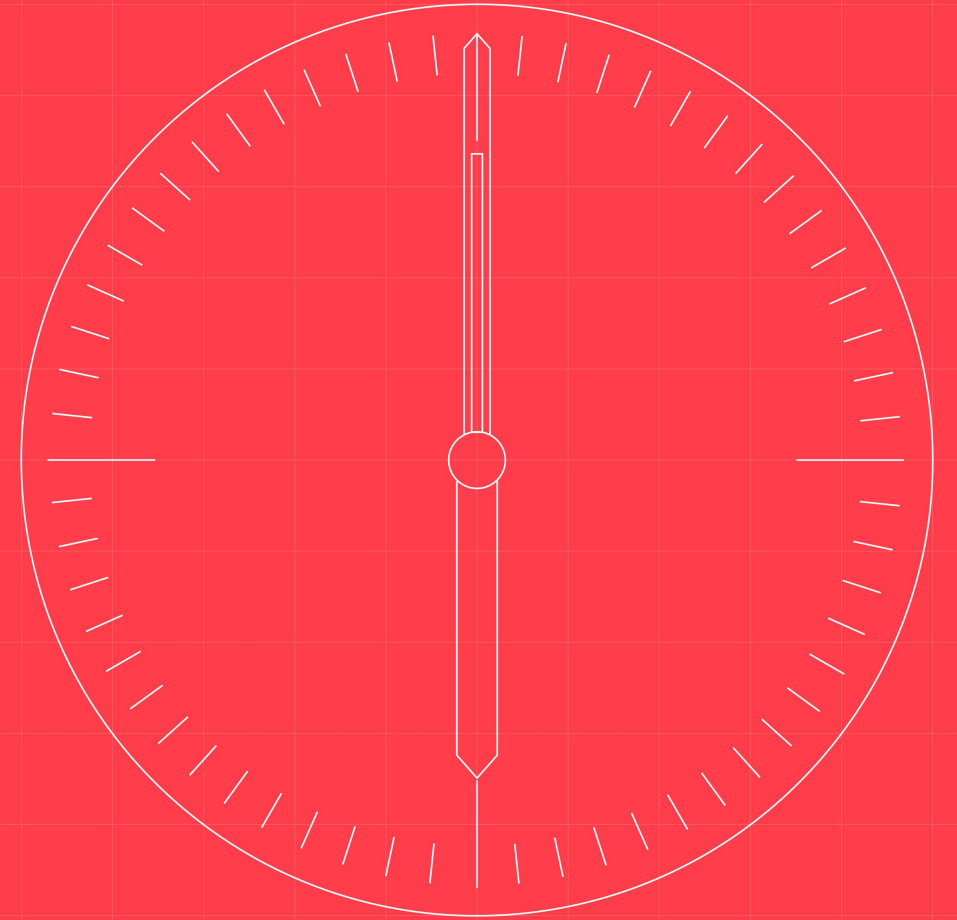
Standing items

- Minutes and action review
- Sponsor update
- Delivery dashboards
- Summary and next steps

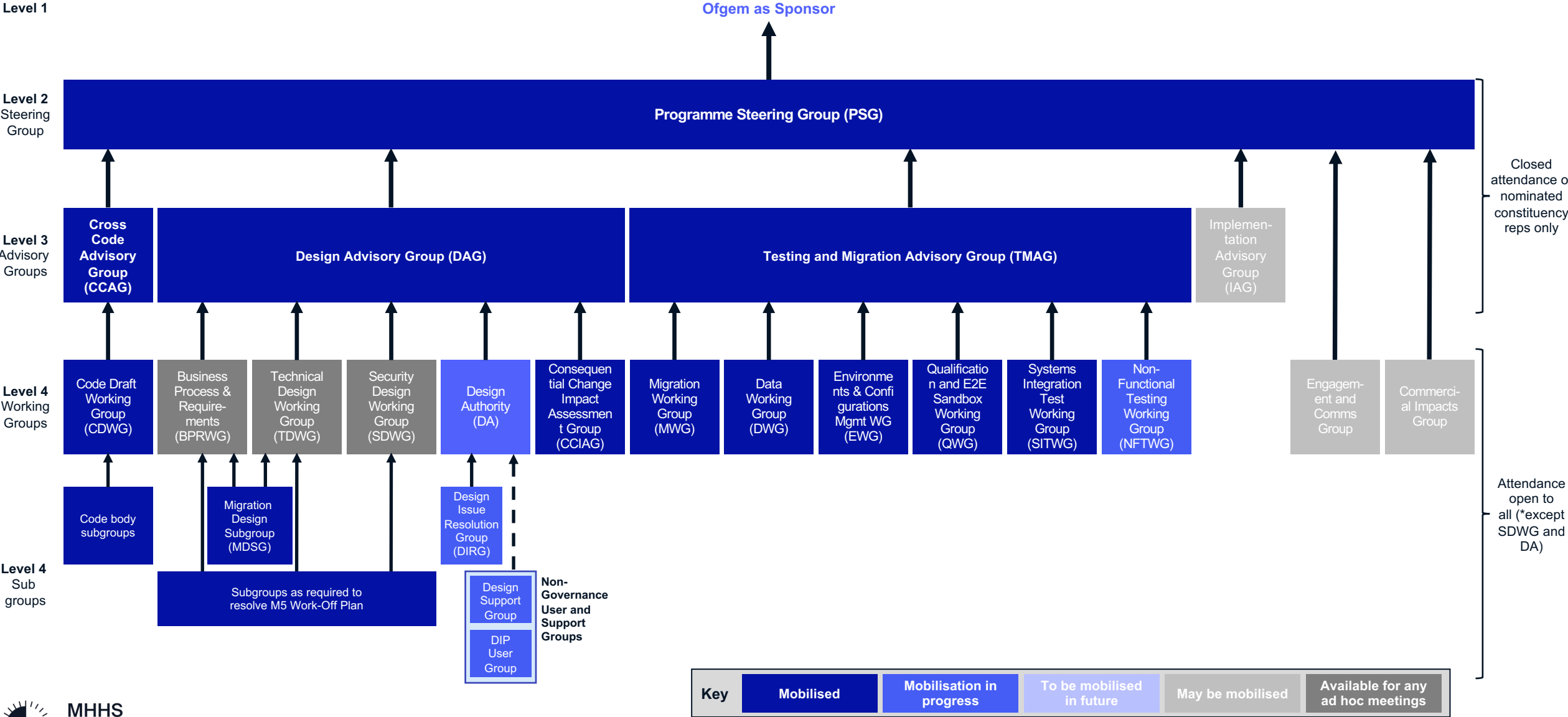
If you would like to propose an agenda item for the PSG, please contact the PMO at PMO@mhhsprogramme.co.uk

Appendix

- Working Group engagement



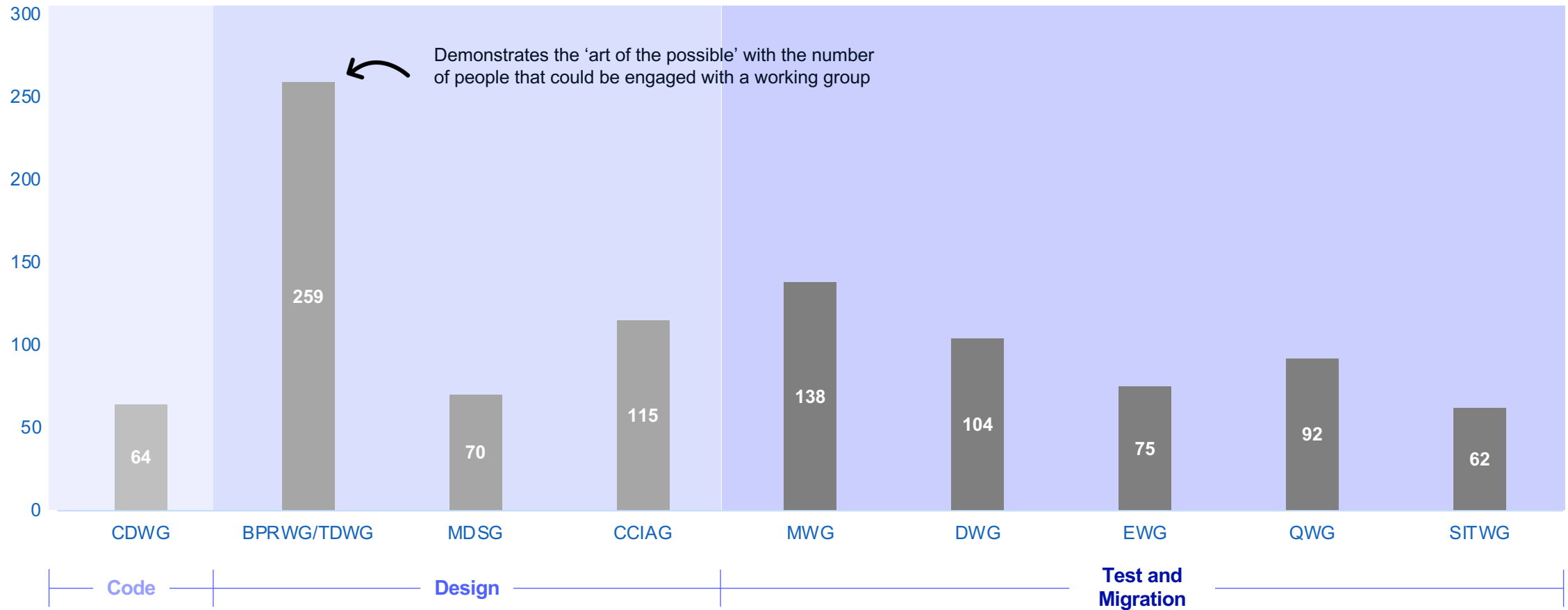
MHHS Governance and Decision-Making Structure



Level 4 Working Group attendance overview (1 of 3)

BRPWG/TDWG has the highest number of individuals from industry on its distribution list while SITWG, EWG, MDSG and CDWG are low comparatively

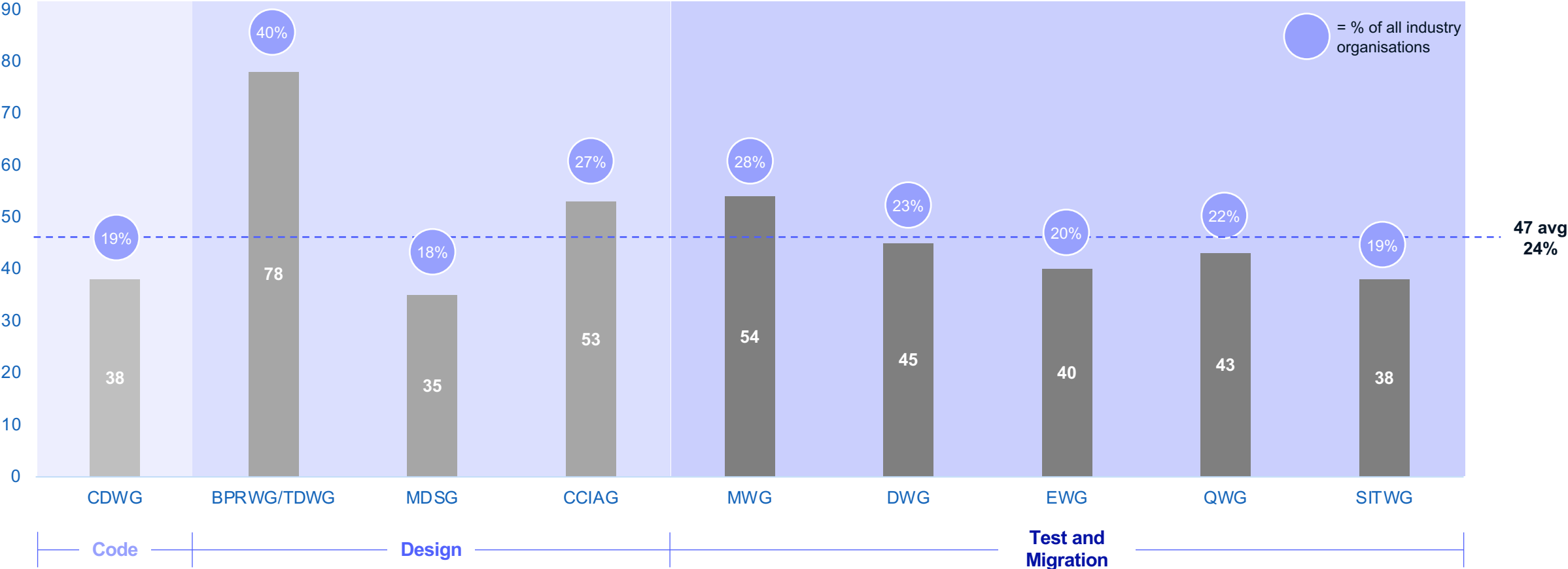
Number of individuals on the distribution list for each Level 4 working group



Level 4 Working Group attendance overview (2 of 3)

A similar distribution is seen when looking at the number of individual organisations on each group. On average, 47 organisations are represented in each MHHS Level 4 group (about 1/4 of all Programme Participant organisations in the CRM)

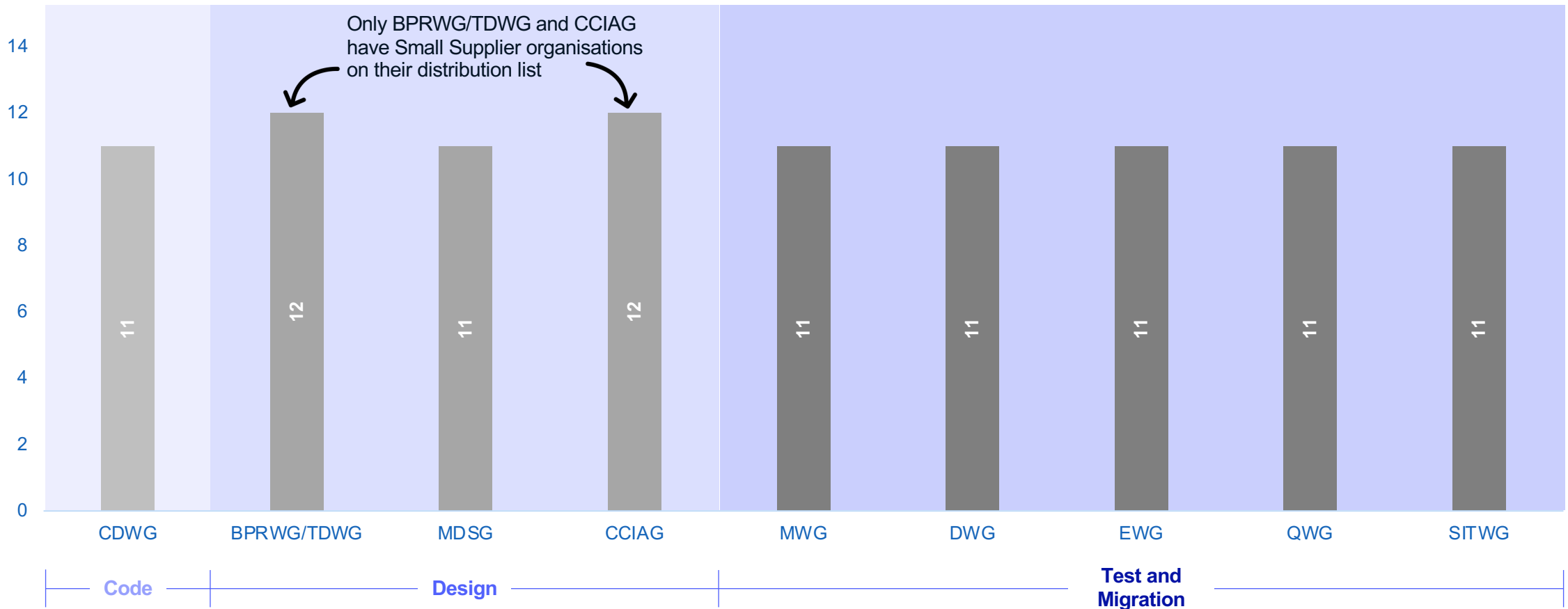
Number of organisations on the distribution list for each Level 4 working group



Level 4 Working Group attendance overview (3 of 3)

Despite variability in the number of individuals and organisations on each distribution list, all constituencies are represented in every working group except for Small Suppliers. Small Suppliers are only represented in 2 Design groups

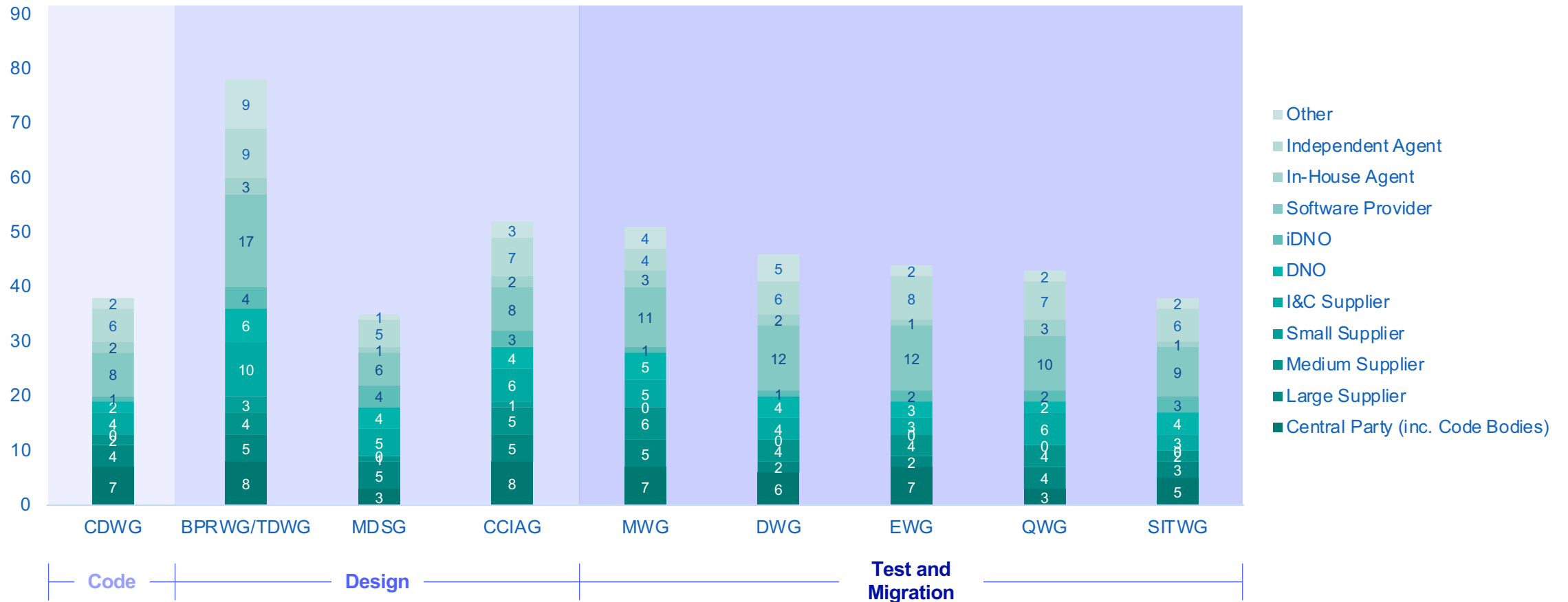
Number of constituencies on the distribution list for each Level 4 working group



Working Group detailed attendance (1 of 3)

We have also looked at organisation representation for each constituency at each governance group. This is shown in more detail in the following workstream-specific slides

Number of organisations per constituency on each distribution list



Working Group detailed attendance (2 of 3)

Testing and migration working groups

Number of organisations represented in each constituency and as a proportion of all organisations in the constituency

Constituency	DWG		EWG		MWG		QWG		SITWG	
Central Party (inc. Code Bodies)	6	67%	7	78%	7	78%	3	33%	5	56%
Large Supplier	2	40%	2	40%	5	100%	4	80%	3	60%
Medium Supplier	4	66%	4	66%	6	100%	4	66%	2	33%
Small Supplier	0	0%	0	0%	0	0%	0	0%	0	0%
I&C Supplier	3	7%	3	7%	5	12%	6	15%	3	7%
DNO	4	67%	3	50%	5	83%	2	33%	4	67%
iDNO	1	7%	2	14%	1	7%	2	14%	3	21%
Software Provider	12	32%	12	32%	11	29%	10	26%	9	24%
In-House Supplier Agent	2	29%	1	14%	3	43%	3	43%	1	14%
Independent Agent	6	24%	4	16%	8	32%	7	28%	6	24%
Other MHHS Participant	5	25%	2	10%	4	20%	2	10%	2	10%
	45	23%	40	20%	55	28%	43	22%	38	19%

DWG: comparatively under-represented by Large Suppliers, I&C Suppliers and iDNOs

EWG: comparatively under-represented by Large Suppliers, I&C Suppliers, In-House Supplier Agents, Independent Supplier Agents

MWG: comparatively under-represented by iDNOs, Software Providers

QWG: comparatively under-represented by Central Parties, iDNOs, DNOs, Software Providers

SITWG: comparatively under-represented by Central Parties, Medium Suppliers, I&C Suppliers, iDNOs, DNOs, In-House Agents

Working Group detailed attendance (3 of 3)

Design and code working groups

Number of organisations represented in each constituency and proportion of all organisations in constituency

Constituency	BPRWG/TDWG		CCIAG		MDSG		CDWG	
Central Party (inc. Code Bodies)	8	89%	8	89%	3	33%	7	78%
Large Supplier	5	100%	5	100%	5	100%	4	80%
Medium Supplier	4	66%	5	83%	1	16%	2	33%
Small Supplier	3	12%	1	4%	0	0%	0	0%
I&C Supplier	10	24%	6	15%	5	12%	4	10%
DNO	6	100%	4	67%	4	67%	2	33%
iDNO	4	29%	3	21%	3	21%	1	7%
Software Provider	17	45%	8	21%	6	16%	8	21%
In-House Supplier Agent	3	43%	2	29%	1	14%	2	29%
Independent Agent	9	36%	7	28%	5	20%	6	24%
Other MHHS Participant	9	45%	3	15%	1	5%	2	10%
	45	40%	40	27%	55	18%	38	19%

BPRWG/TDWG: well represented

CCIAG: comparatively under-represented by I&C Suppliers, DNOs, iDNOs, Agents

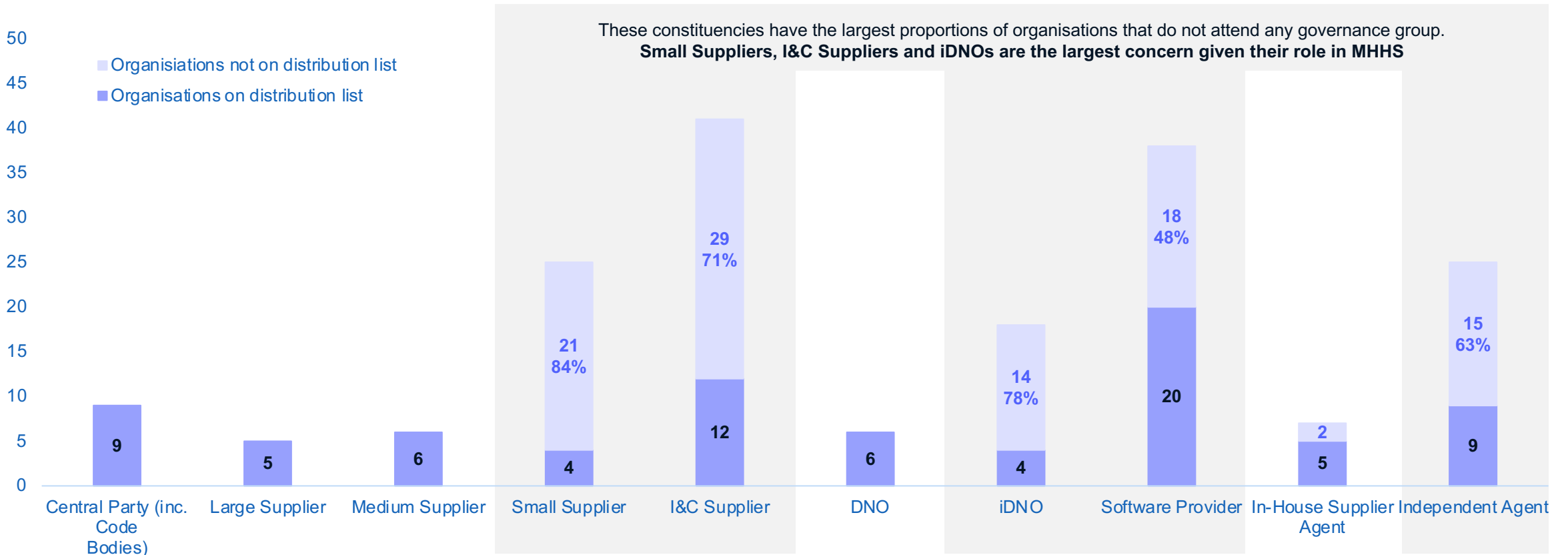
MDSG: comparatively under-represented by Central Parties, Medium Suppliers, I&C Suppliers, Software Providers, Agents

CDWG: comparatively under-represented by Medium Suppliers, I&C Suppliers, DNOs, iDNOs

Organisations that do not attend any working group (1 of 2)

There are 85 Programme Participant organisations* that are not on any Level 4 working group distribution list. These are primarily Small Suppliers, I&C Suppliers, iDNOs, Software Providers and Independent Agents

Number of organisations per constituency that are and are not on a governance group distribution list



Organisations that do not attend any working group (2 of 2)

While we may not expect or need all organisations to engage at every group (and some may engage collectively, such as via their reps), there may be some organisations that do not currently attend any governance group that we wish to target

Organisations that are not on any governance group distribution list

I&C Suppliers (29 of 41, 71%)

AXPO UK Limited
BES Commercial Electricity Limited
BP Gas Marketing Limited
Bryt Energy Ltd
Business Power & Gas Limited
Conrad Energy (Trading) Limited
Crown Gas and Power
Dyce Energy Ltd
Eco Green Management Limited
Edgware Energy Ltd
EnDCo (EPG Energy Ltd)
F & S Energy LTD
Farringdon Energy Ltd TA Champion Energy
Flexitricity Limited
Hartree Partners Supply (UK) Limited
MarblePower Limited
Maxen Power Supply Limited
MB Energy
MVV Environment Services Limited
P3P Energy Supply Limited
PX Group
Regent Gas
SEFE
Switch Business Gas and Power Ltd
Tru Energy Limited
Unify Energy Limited
United Gas & Power Ltd
Vattenfall Energy Trading GmbH
YU Energy

IDNOs (10 of 14, 78%)

Eclipse Power Networks Limited
ESP Electricity Limited
Fulcrum Electricity Assets Limited
Harlaxton Energy Networks Limited
Indigo Pipelines Limited
Leep Electricity Networks Limited
Mua Electricity Limited
Optimal Power Networks Limited
Utility Assets Limited
Vattenfall Networks Limited

Software Providers (18 of 38, 48%)

BJSS
CentralLogic Consultancy Private
Datamere
Energy Potential Tech
Enpaas
Generis
Gilmond
Kaleida
Landis+Gyr
Landmark
Mecoms
Quorum Development
SAP
Senapt
Smart Pear
Solace
Talend
TIBCO Software

In-house Agents (2 of 7, 29%)

Octoes
SP Data Serve

Small Suppliers (21 of 25, 84%)

BGI Trading Limited
Clean Energy Supply
Coulomb Energy Supply Limited
Delta Gas And Power Ltd
D-Energi Trading Limited
Dodo Energy Limited
Eneco Energy Trade BV
Energise Britain
Foxglove Energy Supply Limited
Green Energy (UK) Plc
Idaho Energy TA Trailstone
Logicor Energy Ltd
Paddington Energy
Pozitive Energy Limited
Rebel Energy
RWE Supply & Trading GmbH
SmartestEnergy Ltd
Squeaky Clean Energy Ltd
TOUCAN ENERGY LIMITED
Upower
Valda Energy Limited

Independent agents (16 of 25, 64%)

AES Smart Metering
ASL Holdings
BT PLC
Calvin Capital
Complete Metering
Energy Assets Group
Fulcrum Metering Services
Haste
Horizon Energy Infrastructure
iCD Energy
Kenda
Magnum Utilities
Providor (Bury Metering)
Smartworks Metering
Solace Utilities