Challenge Group

ENA Open Networks

2nd November 2023

Agenda

Item	Start	Finish	Time	Item	Presenter
1	14:00	14:05	5	**Welcome, apologies and introductions** Caroline Farquar (Citizens Advice), Charlotte Goodman (EON) and Olly Frankland (Regen) have sent apologies Matthew Billson or Ayan Aman will be replacing Gemma Stanley (Piclo) for the next few months	Maxine Frerk (Challenge Group Chair)
2	14:05	14:15	10	**Recent industry developments and ON impact** Open discussion on industry developments and their potential impact on Open Networks	Maxine Frerk (Challenge Group Chair) & All
3	14:15	14:45	30	**Primacy Rules** Delivery plan and use case prioritisation	Stuart Fowler (NG ESO) & Luke Harker (NG ED)
4	14:45	15:15	30	**Standard Agreement** Version 3.0 development	Andy Rice (NG ESO) & Wendy Mantle (SPEN-D)
5	15:15	15:25	10	**Break**	
6	15:25	16:35	70	**Future of Open Networks** 2024 work plan Future governance	Avi Aithal (Head of Open Networks, ENA)
7	16:35	16:50	20	**2023 wrap up** Agreeing next session dates Reflections from 2023 engagement	Avi Aithal (Head of Open Networks, ENA) & All
8	16:50	17:00	10	**AOB** Upcoming ON events and comms	Maxine Frerk (Challenge Group Chair) & All

Recent industry developments and ON impact

Open discussion on industry developments and their potential impact on Open Networks

Maxine Frerk (Challenge Group Chair)

Primacy Rules

Stuart Fowler (NG ESO) & Luke Harker (NG ED)

Agenda

- Progress and key messages since last update
- Increment 2- Plan
- Data Exchange
- Use Case Prioritisation proposals
- Expected evolution of the process
- Questions for the Challenge Group

Key Messages

- Focus over last 6 months has been to try and increase the pace (there are 2,646 Use Cases)
- Focussed on enabling data and processes first and the Use Cases second
- A lot of work has been needed to determine the right approach to this
- However, we are starting to see some light at the end of the tunnel
- Work though is still needed within both ESO and DNO's but the intention is to move first with those DNO's that can use technical solutions to data exchange and allow others to catch up
- Still need to ensure that as we increment up that we do not fall foul of any Legal/Codification or privacy challenges but this is factored into the planning that we have done
- Keen to explore how we change the messaging and planning to focus on flex coordination first and then let primacy rules come out of being coordinated

Increment 2 -Plan

External

Update Industry Stakeholders

Share Increment 2 Planning and Prioritisation ✓

Update Industry Stakeholders

Update Industry Stakeholders

New Increment 2 X Use Cases

Internal

September- October Use Case Re-Prioritisation ✓

Reconfirm no changes to Codes

October 23 Data Portal Planning complete

Track 1

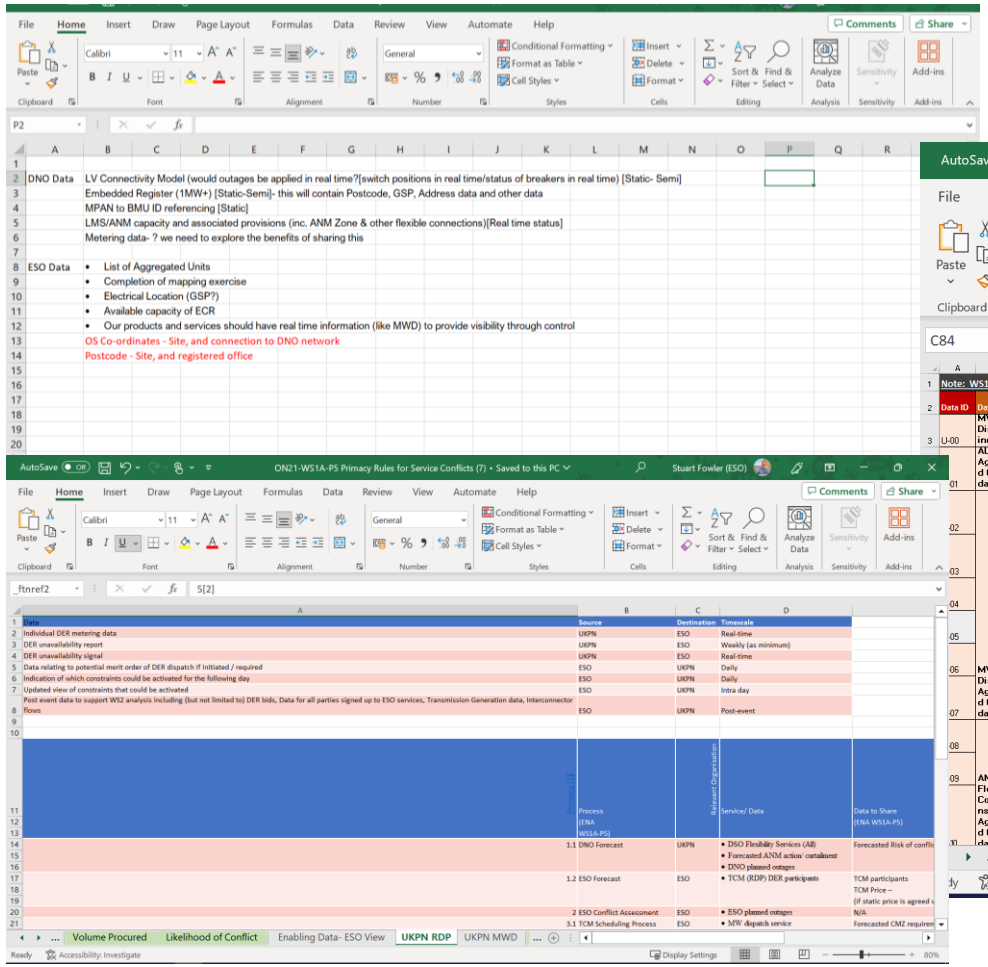
Testing shorter because it's already in place

Data Acquisition/Cleansing | Testing | Implementation

Track 2 (ENW/NPG/UKPN)

Data Acquisition/Cleansing | Testing | Implementation

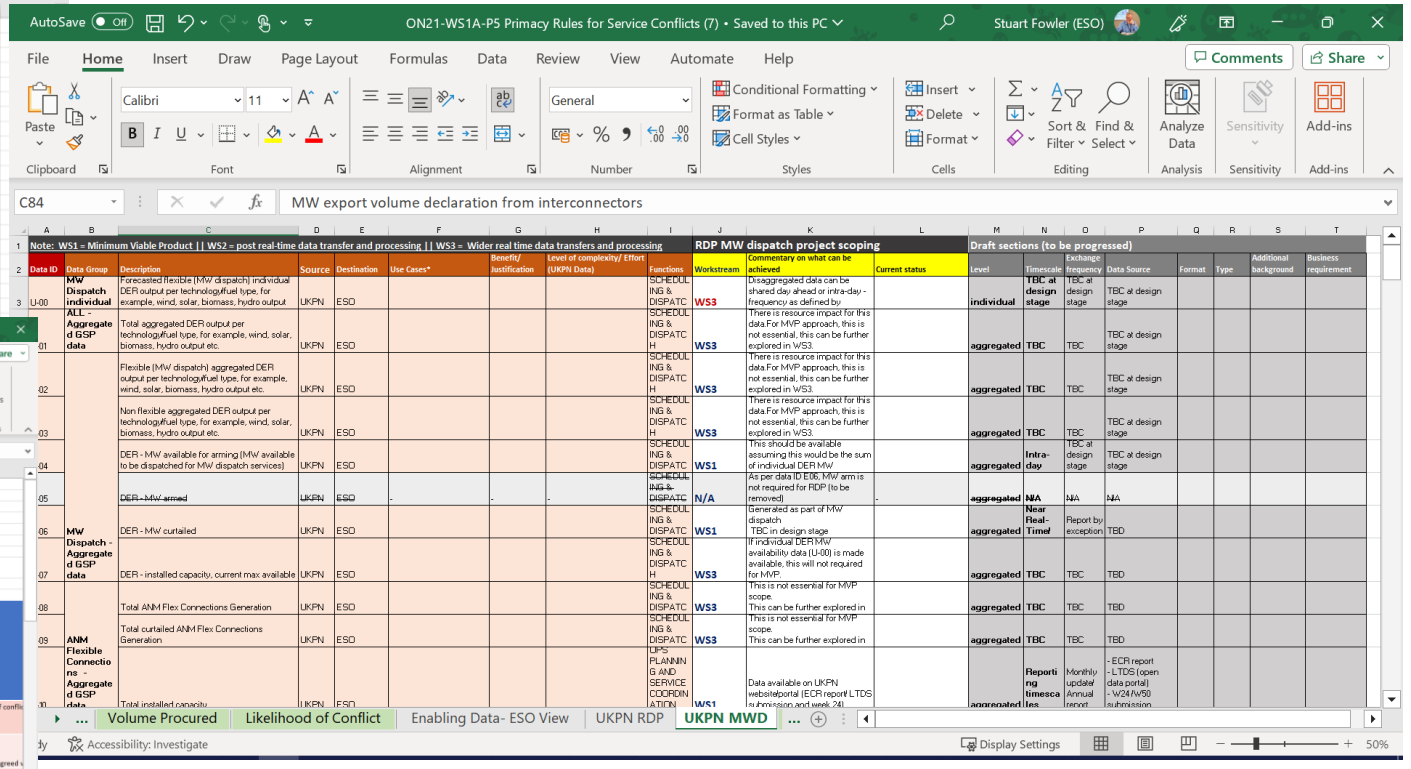
Data Exchange



DNO Data	LV Connectivity Model (would outages be applied in real time?[switch positions in real time/status of breakers in real time) [Static- Semi]	
	Embedded Register (1MW+) [Static-Semi]- this will contain Postcode, GSP, Address data and other data	
	MPAN to BMU ID referencing [Static]	
	LMS/ANM capacity and associated provisions (inc. ANM Zone & other flexible connections)[Real time status]	
	Metering data- ? we need to explore the benefits of sharing this	
ESO Data	• List of Aggregated Units	
	• Completion of mapping exercise	
	• Electrical Location (GSP?)	
	• Available capacity of ECR	
	• Our products and services should have real time information (like MWD) to provide visibility through control	
	OS Co-ordinates - Site, and connection to DNO network	
	Postcode - Site, and registered office	

Data	Source	Destination	Timescale
Individual DER metering data	UKPN	ESO	Real-time
DER unavailability report	UKPN	ESO	Weekly (as minimum)
DER unavailability signal	UKPN	ESO	Real-time
Data relating to potential merit order of DER dispatch if Initiated / required	ESO	UKPN	Daily
Indication of which constraints could be activated for the following day	ESO	UKPN	Daily
Updated view of constraints that could be activated	ESO	UKPN	Intra day
Post event data to support WS2 analysis including (but not limited to) DER bids, Data for all parties signed up to ESO services, Transmission Generation data, Interconnector flows	ESO	UKPN	Post-event

	Process (ENA WS1A-P5)	Relevant Organisation	Service/ Data	Data to Share (ENA WS1A-P5)
1.1	DNO Forecast	UKPN	• DSO Flexibility Services (All) • Forecasted ANM action/ curtailment • DNO planned outages	Forecasted Risk of conflic
1.2	ESO Forecast	ESO	• TCM (RDP) DER participants	TCM participants TCM Price— (If static price is agreed
2	ESO Conflict Assessment	ESO	• ESO planned outages	N/A
3.1	TCM Scheduling Process	ESO	• MW dispatch service	Forecasted CMZ requirem



Note: WS1 = Minimum Viable Product || WS2 = post real-time data transfer and processing || WS3 = Wider real time data transfers and processing

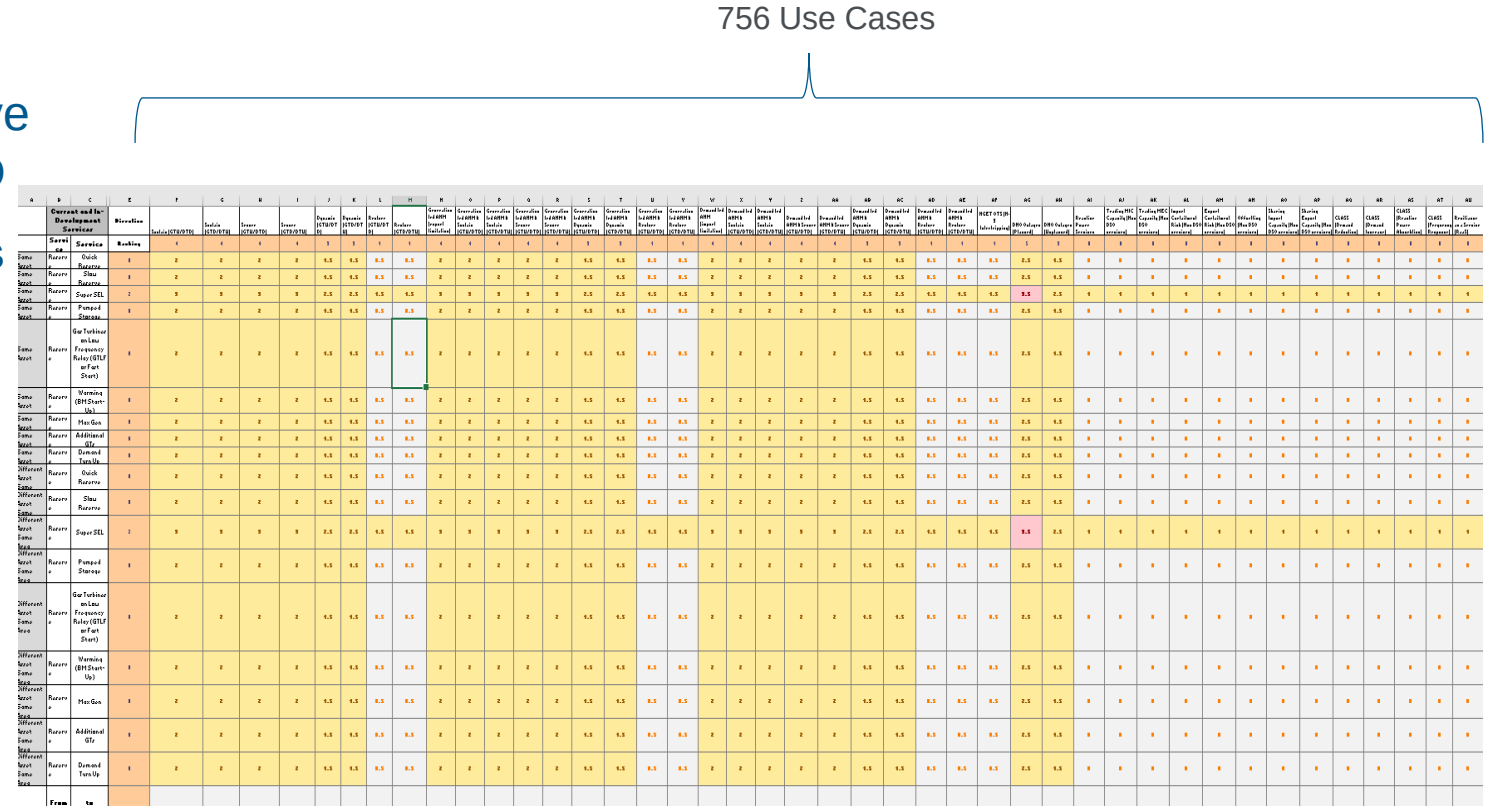
RDP MW dispatch project scoping

Draft sections (to be progressed)

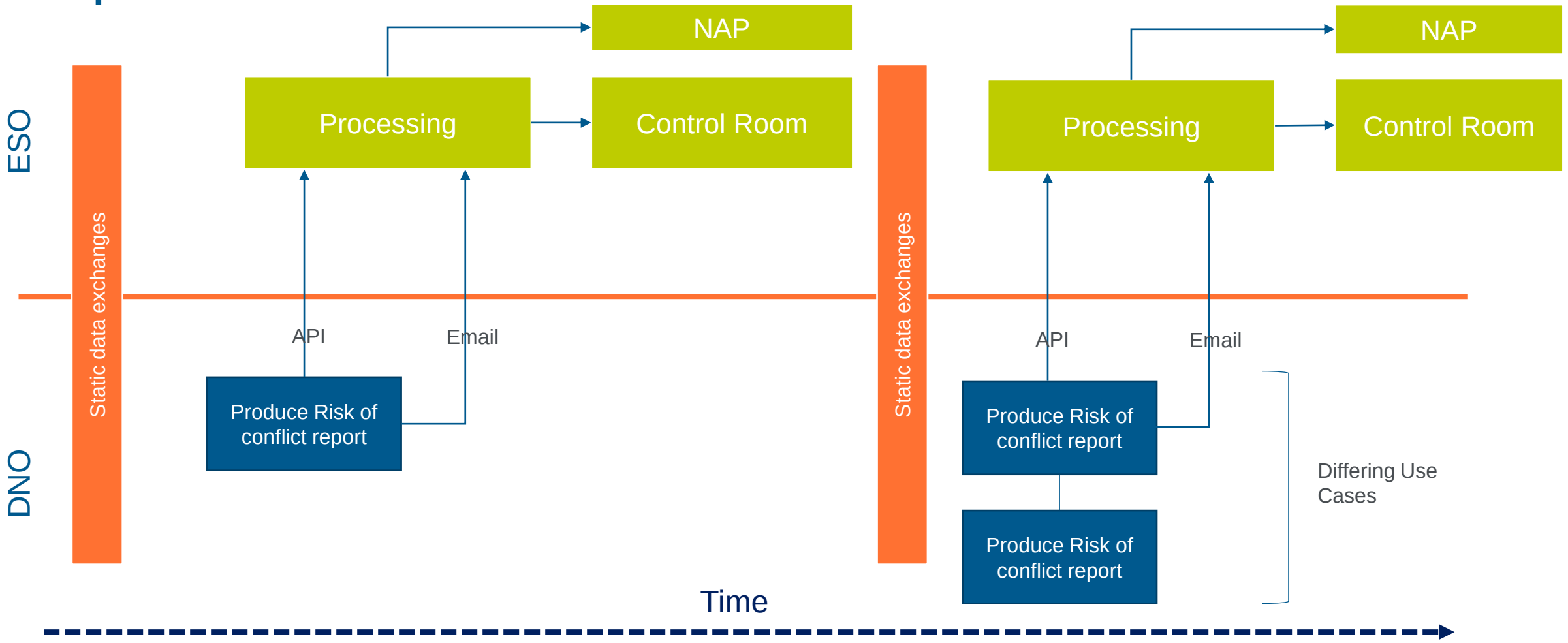
Data ID	Data Group	Description	Source	Destination	Use Cases*	Benefit/ Justification	Level of complexity/ Effort (UKPN Data)	Functions	Workstream	Commentary on what can be achieved	Current status	Level	Timescale	Exchange frequency	Data Source	Format	Type	Additional background	Business requirement
U-00	MW Dispatch individual	Forecasted flexible (MW dispatch) individual DER output per technology/fuel type, for example, wind, solar, biomass, hydro output	UKPN	ESO				SCHEDULING & DISPATCH	WS3	Disaggregated data can be shared day ahead or intra-day - frequency as defined by		individual	TBC at design stage	TBC at design stage	TBC at design stage				
01	ALL - Aggregated GSP data	Total aggregated DER output per technology/fuel type, for example, wind, solar, biomass, hydro output etc.	UKPN	ESO				SCHEDULING & DISPATCH	WS3	There is resource impact for this data.For MVP approach, this is not essential, this can be further explored in WS3.		aggregated	TBC	TBC	TBC at design stage				
02		Flexible (MW dispatch) aggregated DER output per technology/fuel type, for example, wind, solar, biomass, hydro output etc.	UKPN	ESO				SCHEDULING & DISPATCH	WS3	There is resource impact for this data.For MVP approach, this is not essential, this can be further explored in WS3.		aggregated	TBC	TBC	TBC at design stage				
03		Non flexible aggregated DER output per technology/fuel type, for example, wind, solar, biomass, hydro output etc.	UKPN	ESO				SCHEDULING & DISPATCH	WS3	There is resource impact for this data.For MVP approach, this is not essential, this can be further explored in WS3.		aggregated	TBC	TBC	TBC at design stage				
04		DER - MW available for arming (MW available to be dispatched for MW dispatch services)	UKPN	ESO				SCHEDULING & DISPATCH	WS1	This should be available assuming this would be the sum of individual DER MW		aggregated	Intra-day	TBC at design stage	TBC at design stage				
05		~~DER - MW armed~~	~~UKPN~~	~~ESO~~				~~SCHEDULING & DISPATCH~~	N/A	As per data ID E06. MW arm is not required for RDP (to be removed)		~~aggregated~~	N/A	N/A	N/A				
06	MW Dispatch - Aggregated GSP data	DER - MW curtailed	UKPN	ESO				SCHEDULING & DISPATCH	WS1	Generated as part of MW dispatch TBC in design stage		aggregated	Near Real-Time	Report by exception	TBD				
07		DER - installed capacity, current max available	UKPN	ESO				SCHEDULING & DISPATCH	WS3	If individual DER MW availability data (U-00) is made available, this will not required for MVP.		aggregated	TBC	TBC	TBD				
08		Total ANM Flex Connections Generation	UKPN	ESO				SCHEDULING & DISPATCH	WS3	This is not essential for MVP scope. This can be further explored in		aggregated	TBC	TBC	TBD				
09	ANM Flexible Connections - Aggregated GSP data	Total curtailed ANM Flex Connections Generation	UKPN	ESO				SCHEDULING & DISPATCH	WS3	This is not essential for MVP scope. This can be further explored in		aggregated	TBC	TBC	TBD				
10		Total installed capacity	UKPN	ESO				OPS PLANNING AND SERVICE COORDINATION	WS1	Data available on UKPN website/portal (ECR report/ LTDS submission and week 24)		aggregated	Reporting timescales	Monthly updated/ Annual report	- ECR report - LTDS (open data portal) - W24/W50 submission				

Use Case Prioritisation

- Meeting 18/10
- Approach in outline has been agreed
- Leverage some data exchanges that have been agreed with UKPN/NGED for MWD
- Implement next summer for some DNO's and then rest can come on board when ready
- Use Cases agreed- all low risk
- Learn by doing and revisit as and when learning comes to light
- Rule will be that DSO will have primacy



Expected evolution of the Process



Questions for the Challenge Group

- Is this sensible?
- Is there anything else you would like/expect to see?
- Is there anything that we should be doing to make this quicker?

Standard Agreement

Andy Rice (NG ESO) & Wendy Mantle (SPEN-D)
(Technical working group Co-Leads)

Introduction

Currently working to identify updates to v2.1 of the Standard Agreement, focusing on:

- **Liabilities** – Review clauses in current contract (v2.1) and review
- **Domestic participation** – Identify any further changes to remove any barriers for providers with domestic assets
- **Cyber security** – Review cyber security clauses and agree standard approach
- **Anti corruption and bribery** – Review latest legislation and further standardisation across the organisations
- **Collaboration with other ENA work groups** – Incorporate outputs from other TWGs as necessary
- **Further alignment of service based schedules** - Focus standardisation of content where applicable and allow for closer to real time procurement and moving toward a framework approach to contracting
- **Review industry feed back –** whilst working on the above areas consider feedback received plus any new topics

Proposed Changes

Identified change	Proposed Change
Duplicate registration of assets For situations where individual assets are registered and offered by more than one Provider for the same service.	Update Provider obligations for them to ensure that assets are not provided by more than one provider for the same service.
Cyber Security Will be signposted within the terms and conditions to reflect individual DNO requirements until such a time as standard industry wording has been agreed.	All DNOs and the ESO have company specific Cyber Security requirements and any standardisation would need to be debated and agreed at industry level and not as part of the Standard Agreement work, it was therefore felt appropriate for all companies to sign-post within the agreement. If standard requirements are agreed these will be signposted.
Voluntary participation Current wording is more suited to longer term bilateral contracts.	In light of move to shorter term / closer to real time procurement and using an overarching contractual approach wording on voluntary participation to be updated.
Liabilities Reviewing wording to link to service failure.	Standardise service failure wording to cover capacity and duration.

Any changes are subject to legal review and drafting.

Proposed Changes

Identified change	Proposed Change
Collaboration with other TWGs Incorporate output from: • Product TWG • Settlement TWG • Dispatch TWG	Incorporate standing wording from TWGs to cover: • Definition of services (Products) • Metering (Settlements) • Payment Calculations (Settlements) • Payment Reductions (Settlements) • Performance Monitoring (Settlements) • System Comms (Dispatch)
Re-organisation / Alignment of Schedules Move information into contract award notifications as appropriate and remove sections no longer required.	To facilitate an overarching contract which will apply to many tenders, some information will be specific to individual services contracted for (e.g. service windows) and therefore will need to be included in the contract award notifications. Existing wording relation to variations to services plus the offer of discretionary services is also being considered in the context of an overarching agreement structure.
Governance It is not intended that the Common Contract TWG continues indefinitely after the issue of v3 but reconvene to discuss changes identified for review via a more formal route.	Provide clarity on future governance and process for feedback and changes to the Standard Agreement

Any changes are subject to legal review and drafting.

Questions

We would now like to give you the opportunity to ask any questions or give feedback/ suggestions relating to the proposed updates to the Standard Agreement.

Break

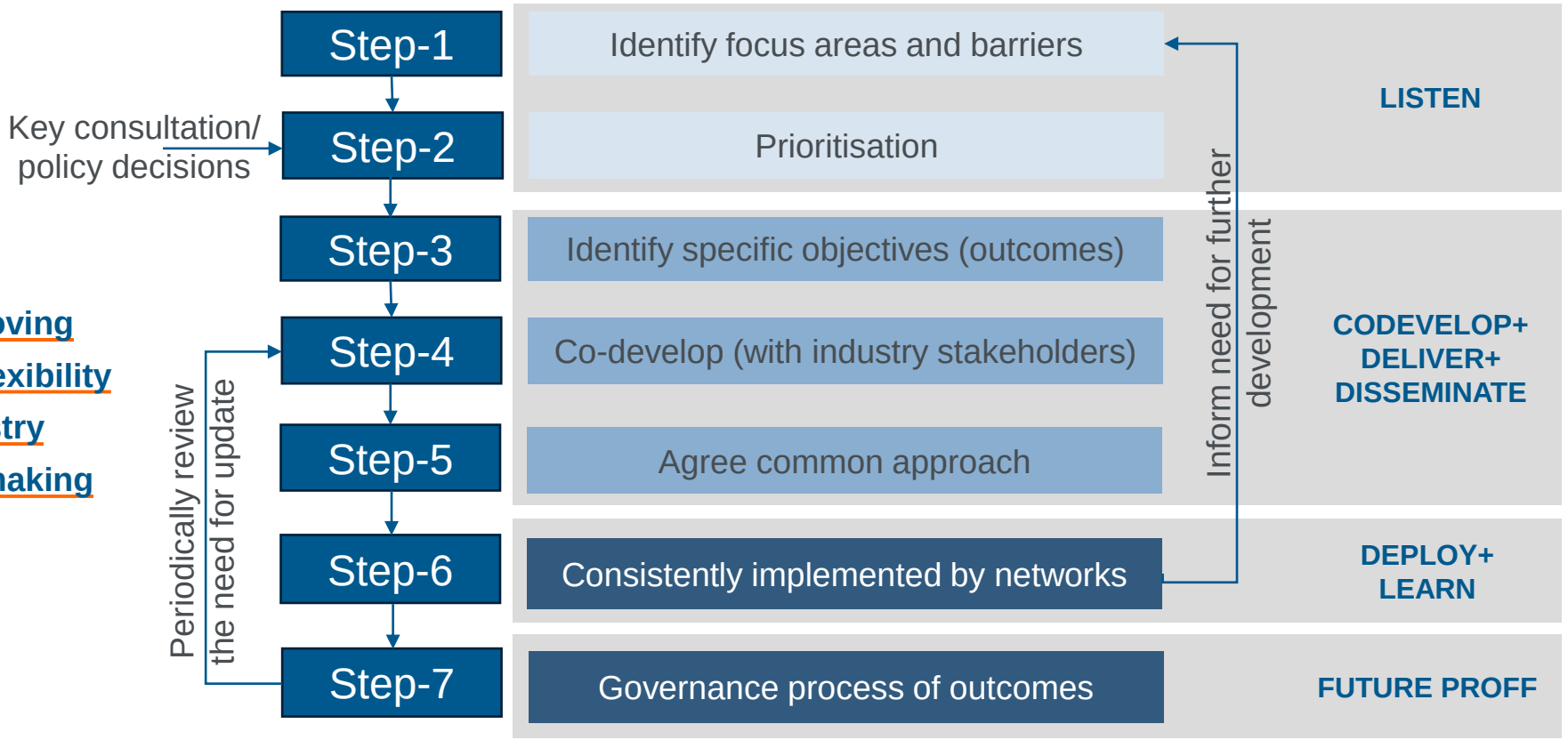
Future of Open Networks

Avi Aithal (Head of Open Networks, ENA)

Open Networks- Our approach

In 2023,

Open Networks pivoted to by **removing barriers to participating in the flexibility markets** and bringing **wider industry stakeholders into the decision-making process.**



Open Networks - Recap

Initial discussions with:

- Ofgem
- DESNZ
- Networks companies (ON Steering Group and working group leads)

Key messages received:

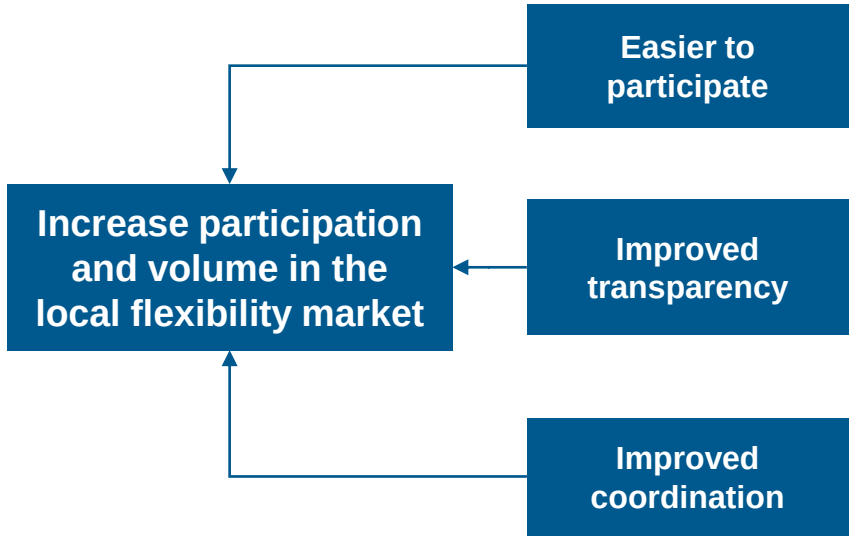
- Delivering the work plan in full is most important, followed by picking up next steps on these areas of work
- It is important to keep up the momentum we've developed
- Strategically communicating with non-network stakeholders to be a key part of future plans- Expand reach of our communication.
- The programme should remain agile to react to regulatory/policy changes and have the ability to swiftly adapt to ongoing developments change direction to deliver the best value for networks and customers

Open Networks

In agreement with our stakeholders that, **The focus of Open Networks will be to increase participation and volume in the local flexibility market.**

we focused on:

- **Making it easier for flexibility service providers to participate in the flexibility market by standardising products, processes and contracts,**
- **Improving operational coordination between networks and companies to remove barriers to dispatch of services,**
- **Putting in measures to improve transparency of processes and decision-making.**



Products	Processes	Systems	Governance	Engagement	Knowledge sharing

Development Area

Products	Processes	Systems	Governance	Engagement	Knowledge sharing

Area of work	State of play	Next step(s)	Networks	Ofgem/DE SNZ	CG
Streamlining of Flex products	Stakeholder buy ins + implementation	Engagement + Enduring governance	Y	Y	Y
Standardisation of Flexibility contracts	Development of Ver 3	Consultation and implementation+ Enduring governance	Y	Y	Y
Streamlining of valuation of Flex	CEM Ver 2.2 in use by all DNOs along with best practice guide	Enduring governance + opportunity to improve transparency of tool use	N	N	
Baselining methodology	Methodology and tool available	Baselining methodology to be updated for new product definitions			Y

Development Area

Products	Processes	Systems	Governance	Engagement	Knowledge sharing

Area of work	State of play	Next step(s)	Networks	Ofgem/DE SNZ	CG
Standardisation of Pre-qualification	Implementation of consistent data layer	Enduring governance + Opportunity to develop an API	Y	Y	Y
Data sharing between org	WIP Working on harmonising high importance data sets in increments	Deliver increments	Y	N	Y
Data Sharing with non-networks stakeholders (external)	Presently sharing agreed operational data (e.g. outage, boundary flows, curtailment)	Workshop to explore datasets that are presently not being shared			Y
Standardisation of Settlement process	Implementation of consistent processes in increments (1/3 complete, 1/3 WIP, 1/3 TBD)	Dovetail with the common API work	Y		
Primacy rules	Increment -1 implementation. Review of increment 2 plans to increase the number of use cases covered	Finalise revised delivery plan for increment -2 and plans for Furter development	Y	Y	

Development Area

Products	Processes	Systems	Governance	Engagement	Knowledge sharing

Area of work	State of play	Next step(s)	Networks	Ofgem/DESNZ	CG
Systems interoperability	Developing common API for dispatch systems+ **Ongoing discussion with Ofgem/DESNZ**	+ Development of MVP + Wider interoperability issues	Y	Y	Y
Standardisation of Settlement process	Implementation	Dovetail with the common API work	Y		
Back-end infrastructure for deployment of Primacy	DNOs ensuring appropriate is available for the deployment of Primacy	Harmonisation of data sharing	Y		
Ofgem consultation outputs	In conversation to Ofgem	Review outcomes and course correct if necessary	Y		

Development Area

Products	Processes	Systems	Governance	Engagement	Knowledge sharing

Area of work	State of play	Next step(s)	Networks	Ofgem/DESNZ	CG
Key alignment documents to be consistently embedded into- Engineering recommendation portal/ governance structure	Approval received from appropriate SG	Agree frequency of review + Create documents in a consistent template (for product definition, PQQ questions, Std contract+ NDP, carbon reporting, co-ordination register) + update website backend	Y	Y	Y
Governance of items with no obvious governance approach and/or overlaps with existing codes (e.g. primacy rules)	Working with Regulation team + Engaging external expert	Identify revenant code and modification requests + Create viable governance options	Y		
API standard governance	In conversation with Ofgem and DESNZ Challenge of using a “common” vs “standard” API	Identify delivery steps to align with Ofgem’s mid-long-term views.	Y	Y	

Development Area

Products	Processes	Systems	Governance	Engagement	Knowledge sharing

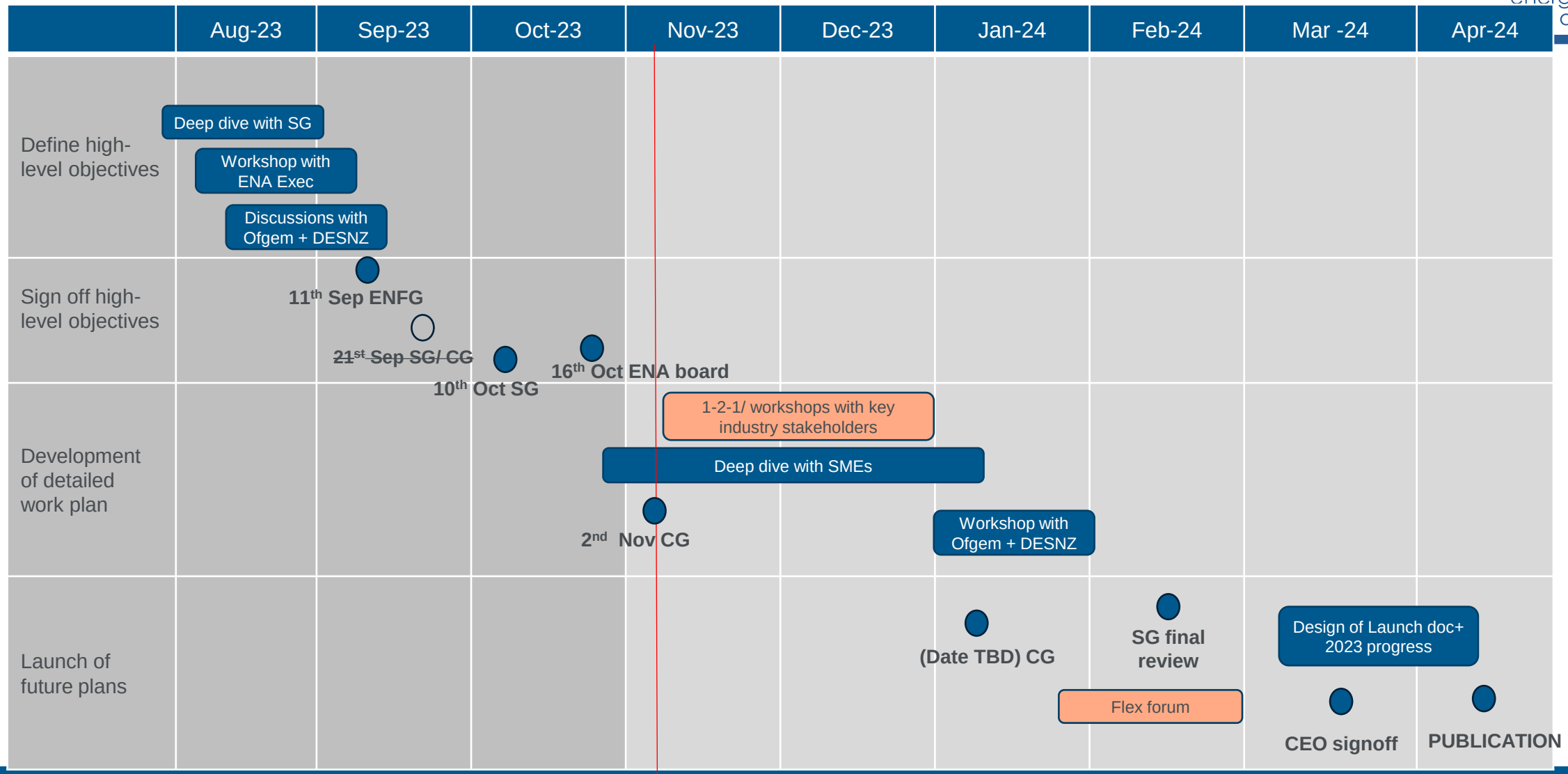
Area of work	State of play	Next step(s)	Networks	Ofgem/DE SNZ	CG
With other internal ENA working groups	Ongoing- jointing up some key strategic work across ENA working groups (e.g. connections, data and digitalisations)	Continue to engage at key stages to tap into expertise to ensure we are fully joined up. Jointly delivering work if and when appropriate (Interoperability and T-D boundary primacy- connections)	Y		
Codevelop with industry	CG + focus groups	Continue to tap into expertise for the industry to ensure fit-for purpose outcomes form the programme.	Y	Y	Y
Targeted engagement	Ongoing- go to stakeholders instead of calling them to our forums	Continue to push forward and exploring to make this a consistent and enduring exercise.	Y	Y	Y
Flex forum	TBD	Explore internal priority and budget. Initiate discussion with Power responsive	Y		

Development Area

Products	Processes	Systems	Governance	Engagement	Knowledge sharing

Area of work	State of play	Next step(s)	Networks	Ofgem/DE SNZ	CG
Share learning from innovation projects	Ongoing	Continue to work closely with key innovation projects (e.g Fusion, Transition Bitrader)	Y	Y	Y
Webinars	In Calander- Dec insights forum reshaped to be a webinar for flex providers	Agree layout and ensure accessibility of information+ Secure designers			
Sector specific web pages	Early development	Agree layout and ensure accessibility of information+ Secure designers			
Explainers and blogs	Periodic	Align with key milestones and plan wider publications			
Open Networks DSO flexibility book	Formally commissioned with Springer (open access)	Collate the latest information			

Timeline


Aug-23
Sep-23
Oct-23
Nov-23
Dec-23
Jan-24
Feb-24
Mar -24
Apr-24
Define high-level objectives
Deep dive with SG
Workshop with ENA Exec
Discussions with Ofgem + DESNZ
Sign off high-level objectives
11th Sep ENFG
21st Sep SG/ CG
10th Oct SG
16th Oct ENA board
Development of detailed work plan
1-2-1/ workshops with key industry stakeholders
Deep dive with SMEs
2nd Nov CG
Workshop with Ofgem + DESNZ
Launch of future plans
(Date TBD) CG
SG final review
Flex forum
Design of Launch doc+ 2023 progress
CEO signoff
PUBLICATION

Next Steps

- **Secure ENA board approval for the high-level objectives and budget for Open Networks**
- Continue to shape governance options for all outcomes existing and past outcomes from Open Networks
- **Develop/ update clear measurable outcomes for the agreed areas of work**
  - Share the updates to CG (Jan)
  - Workshop with Ofgem and DESNZ
  - Develop a detailed work plan to ensure we are able to track milestones and risks
- **Review Ofgem consultation**
  - Support the drafting of an ENA response- agree on key action that should be actioned by Open Networks.

Agreeing next session dates

- Does the bi-monthly frequency of meetings work for you?

- Proposed months for bi-monthly meetings:
  - January
  - March
  - May
  - July
  - September
  - November

2023 Wrap up

Avi Aithal (Head of Open Networks, ENA) & All

Open discussion on 2023 reflections

All

AOB

Upcoming ON events and comms

Ensure flex market participants are aware of new common products, pre-qualification questions, and updated standard contract

1. Press and social campaign to widely inform stakeholders (November)

- Simplified web page on the ENA website targeted at flex service providers
- Explanatory infographics for the web page, LinkedIn, and shared with partner organisations and relevant trade and professional standards organisations
- Press release to trade, construction and engineering platforms with online ads on relevant platforms

2. Themed webinar: New flexibility market standards and processes

- We will utilise the 12th Dec Insights Forum as a themed webinar, and use LinkedIn promotion to increase sign ups

3. Close loop with focus group members

- Circulate outcomes of the focus group engagement and share the latest/final versions of key proposals
- Include ‘you said we will’ where applicable
- Further engagement in 2024 to collect post-implementation stakeholder feedback

Useful Links

ON 2023 launch document

2023 Detailed work plan

2023 Strategic Roadmap for Flexibility

Stakeholder events

We welcome feedback and your input

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