

# ENA Open Networks

Insights Forum

28 September 2023

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# Agenda

Item	Start	Finish	Time	Item	Presenter
1	10:00	10:05	5	<b>Welcome, overview of agenda, housekeeping</b>	Helen Jarva (ON Project Manager, ENA)
2	10:05	10:35	30	<b>Introduction to Open Networks 2023</b> - GB flex figures - Open Networks Success Framework - Q&A	Avi Aithal (Head of ON, ENA) & Reece Breen Begadon (ON Technical Lead, ENA)
3	10:35	10:55	20	<b>Flexibility products</b> - Introducing common flex products - Q&A	Laura Brown (NPg) & Guy Shapland (SPEN D) (Technical working group co-Leads)
4	10:55	11:10	15	<b>Procurement processes</b> - Introducing aligned pre-qualification - Q&A	Helen Sawdon (Technical working group Lead, NG ED)
5	11:10	11:20	10	<b>Break</b>	
6	11:20	11:35	15	<b>Settlement process</b> - Aligning settlement processes - Q&A	Gavin Stewart (Technical working group Lead, SSEN D)
7	11:35	11:55	5	<b>Dispatch Systems</b> - Making dispatch systems interoperable - Q&A	Tim Manandhar (UKPN) & Joe Davey (NG ED) (Technical working group co-Leads) & Ross McPherson (PNDC)
8	11:55	12:05	10	<b>What's next for Open Networks</b> - Upcoming ENA events	Helen Jarva (ON Project Manager, ENA)
9	12:05	12:30	25	<b>Open discussion, reflections, AOB</b>	Helen Jarva (ON Project Manager, ENA) & All

# Introduction to Open Networks 2023

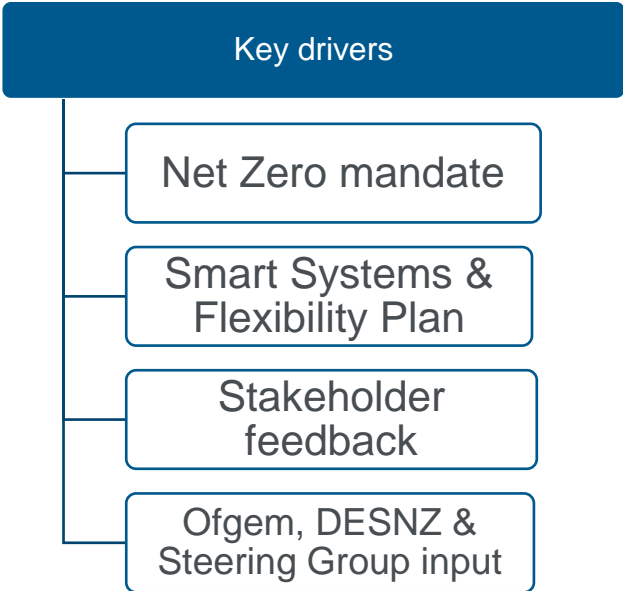
GB Flex figures and Open Networks success framework

Avi Aithal (Head of ON, ENA)

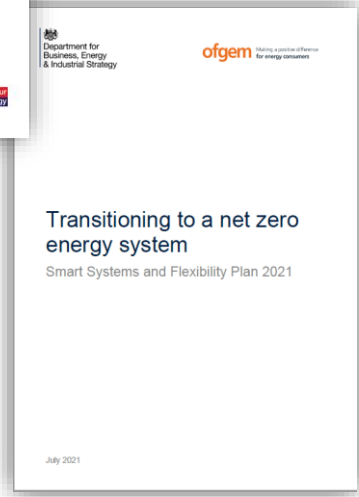
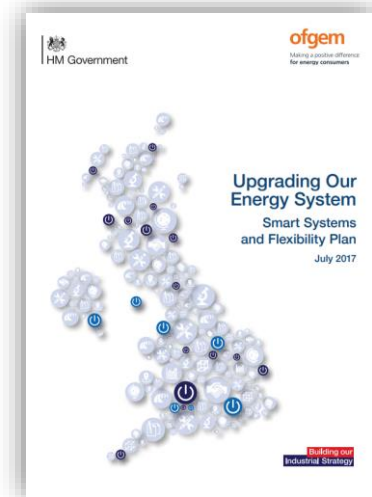
Reece Breen Begadon (ON Technical Lead, ENA)

# Origins of Open Networks

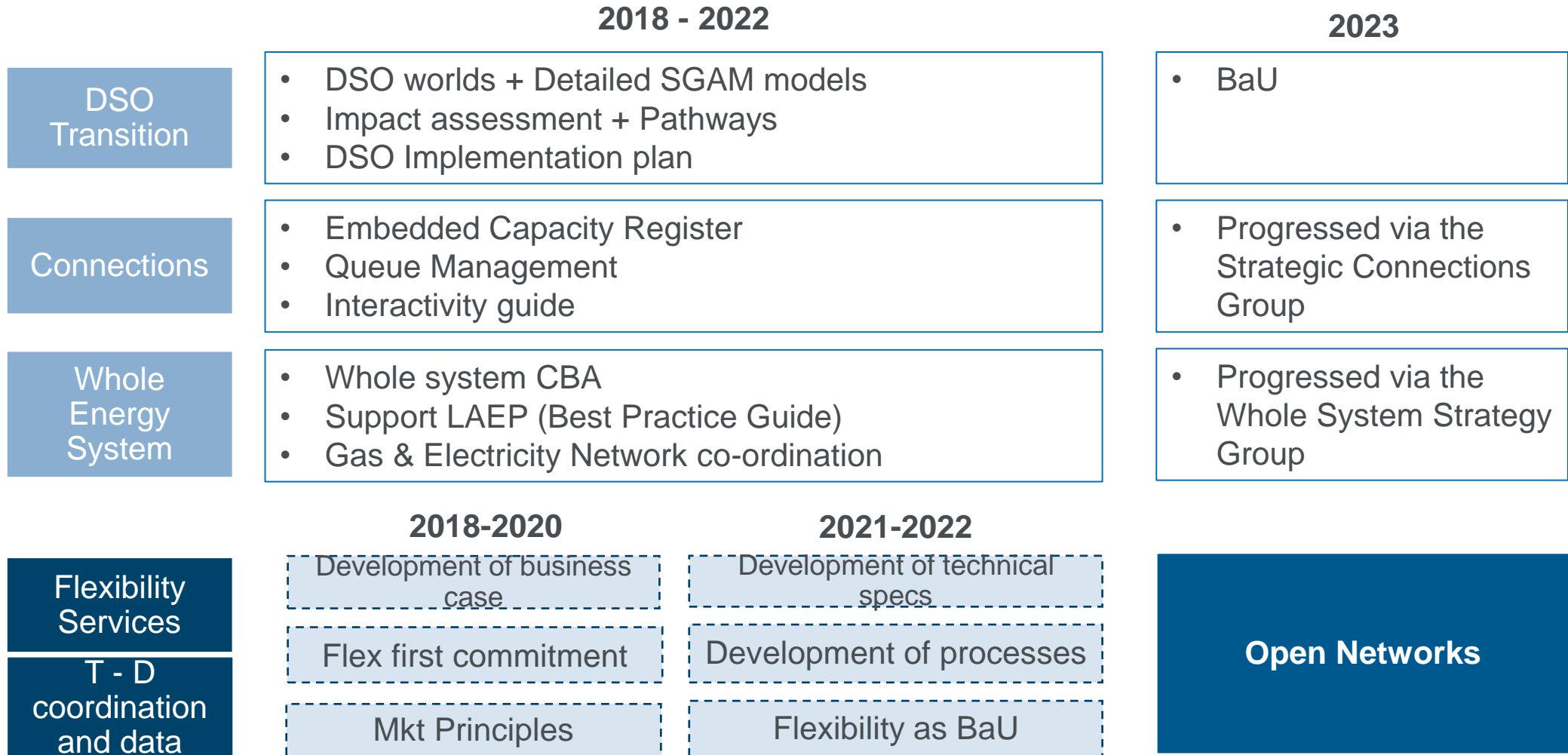
Started in 2017, the Open Networks programme is working with the networks and industry to lead the transition to a smart and flexible energy system that will enable net zero.



- ✓ Informing the transition to Distribution System operation
- ✓ Opening local flexibility markets to demand response and renewable energy
- ✓ Helping customers connect faster
- ✓ Opening data to enable customers identify best locations to invest
- ✓ Delivering efficiencies between network companies to operate secure and efficient networks

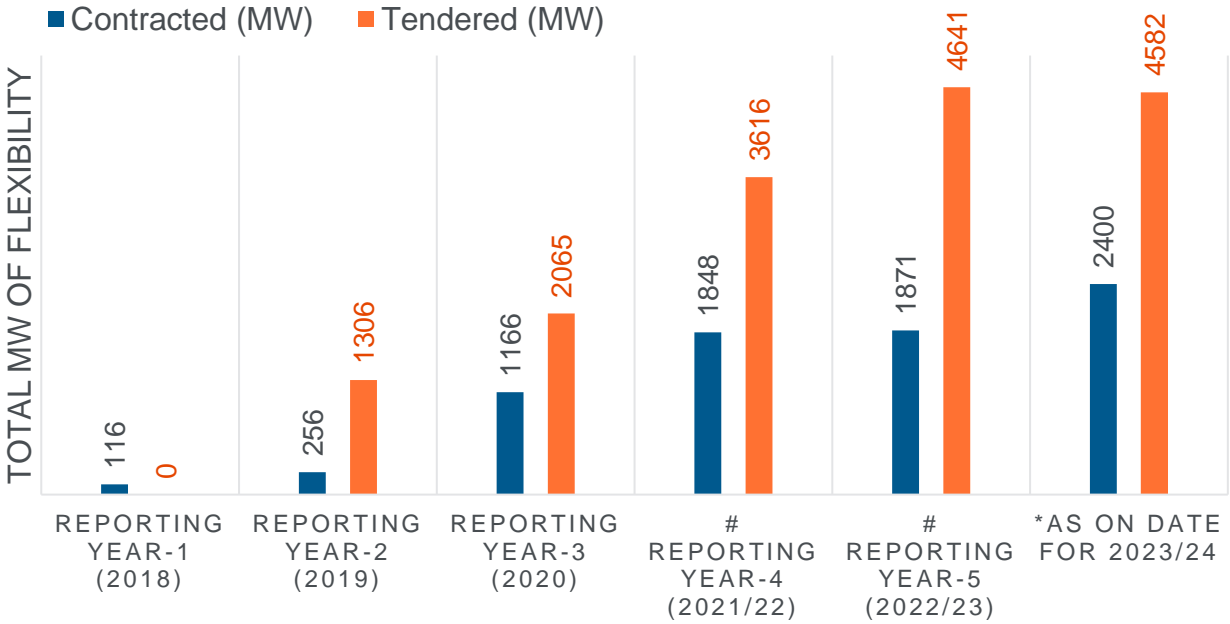


# Evolution of Open Networks

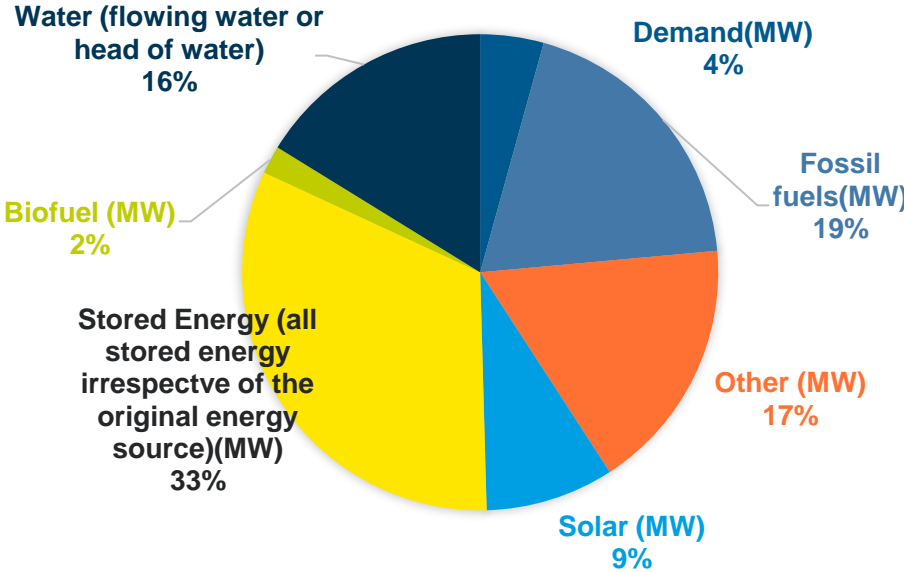


# Local Flexibility Market - State of play (GB flex figures)

**Flexibility Services in GB (Actuals)**  
 (Tendered and Contracted Services for delivery in the reporting year)



**Technology breakup of contracted flexibility for delivery in 22/23**



\* Contracted/Tendered to date, more expected over the remainder of 2023  
 # Reporting cycle moved from calendar year to regulatory year

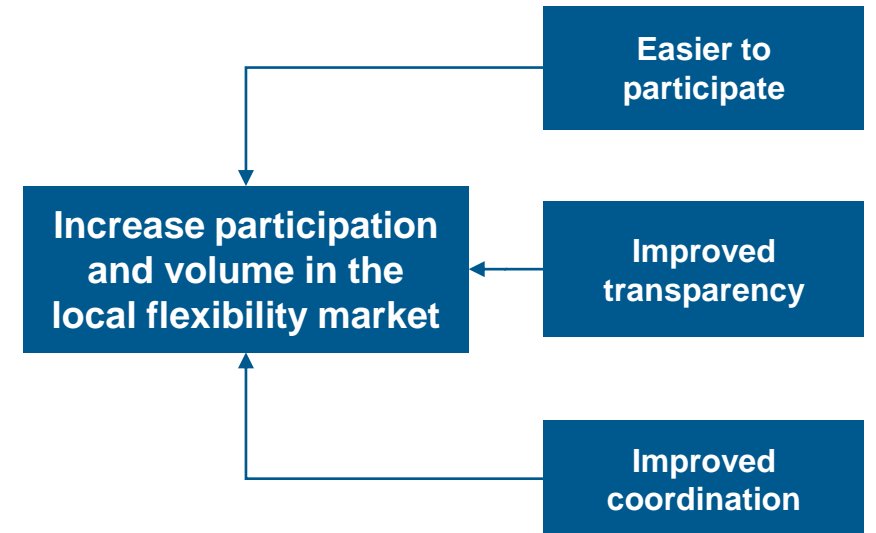
# Open Networks 2023

In 2023, The focus of Open Networks will be to increase participation and volume in the local flexibility market. In line with the actions from the government's Smart System Flexibility Plan 2021.

Open Networks is looking to demonstrate our ambition to delivering tangible consistent changes to industry practices across the participating members.

we will focus 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.**





# Overview of outcomes

Main outcomes	Target Date	Description of result	Stakeholder impact
Standardisation of Flex products	By Apr 2024	80% of total volume of flexibility tendered by DNOs will be with common products having common technical specifications	Flexibility service providers will have consistent user experience accessing the DSO market with a consistent product specification across the country
Standardisation of Pre-qualification	By Apr 2024	All assets registering for distribution flexibility services will use standard data for technical and commercial pre-qualification	Simplified and standardised pre-qualification process will ensure easy sign-up to DSO flexibility markets and a consistent user experience across the country
Standardisation of Flexibility contracts	By Apr 2024	All DNOs will use common T&Cs and schedule headings for all flexibility contracted.	Moving towards a framework agreement, flexibility providers will have minimal legal costs when engaging with the market across all DSO and relevant ESO flexibility services,
Standardisation of Dispatch API	By Apr 2024**	All DNOs adopt common API specification for dispatch of flexibility.	DSO flexibility market platforms will provide an optimal end-to-end experience, saving flexibility service providers from needing to develop multiple interfaces
Standardisation of Settlement process	By Apr 2024	All DNOs adopt a common settlement approach for flexibility.	Simplified and standardised settlement process will ensure a consistent user experience across the country
Implementation of Primacy rules	By Apr 2024**	All DNOs and ESO implement designed processes and information flows to implement primacy rules (increments 1 and 2).	Clear and consistent rules to manage conflicts arising within and across flexibility markets will help service providers improve their DSO flexibility offerings, whilst ensuring secure operation of the networks
Harmonisation of data shared between DNO-ESOs	By Apr 2024**	Consistent bilateral operational data exchange between all DNOs and ESO.	Markets will benefit from improved efficiencies with network company processes and confidence in their operational forecasting
Harmonise DER visibility Information	By Dec 2023**	All DNOs use consistent DER visibility specifications ('Go' or 'No go' decision to be taken in Sep 2023).	Requirements for new DER connections will be streamlined and network visibility will be improved through the consistent information flow from DER to DNOs
Consistent Network development plans	By Jun 2023	All DNOs report using the agreed Network Development Plan (NDP) format	Consistent reporting and regulatory submissions across network companies will allow stakeholders to be better informed of major network developments, with a sufficient level of detail to aid their planning and forecasting activities
Consistent Network co-ordination activities	By Jun 2023	All DNOs report using the agreed whole electricity system co-ordination register format.	
Consistent Carbon Reporting	By Jun 2023	All DNOs report using the agreed carbon reporting methodology for 2023 & 2024 SLC 31E submissions.	
Consistent Flex Reporting	By Aug 2023	Publication of flexibility figures collated from SLC 31E submissions (including technology break down).	

# Flexibility products

## Introducing aligned flexibility products

Laura Brown (NPg) & Guy Shapland (SPEN D)  
Technical working group co-Leads

# Flexibility Products

- The ENA ON had historically developed four distinct, standardised Distribution Flexibility Market Products

Product	DNO Requirement	Payment and Dispatch Structure
<b>Sustain</b>	To manage an ongoing requirement to reduce peak demand	Typically, dispatch is scheduled well in advance for a fixed fee
<b>Secure</b>	To manage peak demand on the network, usually weekday evenings	Predominantly paid based on utilisation, but with some use of availability payments also. Timing of dispatch varies by DNO (e.g. WPD dispatch one week ahead while UKPN dispatch in real time)
<b>Dynamic</b>	To support the network during fault conditions, often during maintenance work	Typically dispatched at short notice with low availability payments and high utilisation payments
<b>Restore</b>	To support the network during faults that occur as a result of equipment failure	Typically dispatched at short notice with low availability payments and high utilisation payments

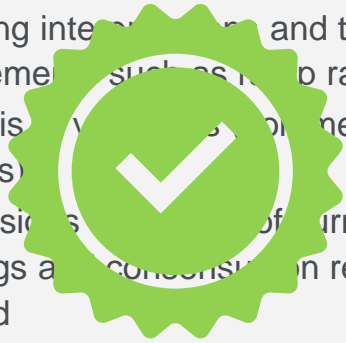
# Development and Implementation plan

## Flexibility Products TWG 2023 Outcomes

- Alignment of products specifications, integrate with 2023 tender rounds and revise the Catalogue
- Take into account how the Flexibility Services market has evolved

### Development

- Collation of all the existing procured product use cases and technical specifications
- Detailing interconnectors and technical requirements such as ramp rates etc.
- Analysis of current market on initial findings
- Discussions of current product offerings and consistency in relevance moving forward
- Agreement on alignment of specifications
- Provide recommendation to Steering Group



### Implementation

- Seek agreement from the Market and the Regulator
- Plan implementation ideally ahead of autumn tender rounds
- Seek agreement from the Regulator
- Signal to the Market for implementation
- Implement



### Engagement and Communication

- Ensure consistency of deployment ✓
- Engage with the Market to ensure they are well briefed on the plans ✓
- Provide opportunity for feedback and challenge ✓
- Revise the Product Catalogue
- Revise Stackability Report if applicable
- Flexibility Products chooser tool



Working on

## Status

### ■ **Standardised Products**

- Flexibility Services types defined by common product parameters
- Characterised by Market Structure, Availability and Utilisation
- Defined five standard products
- The products are aligned by all GB DNOs/DSOs and a variant is allowed for one parameter (generally response time) to ensure that all market use cases can be included

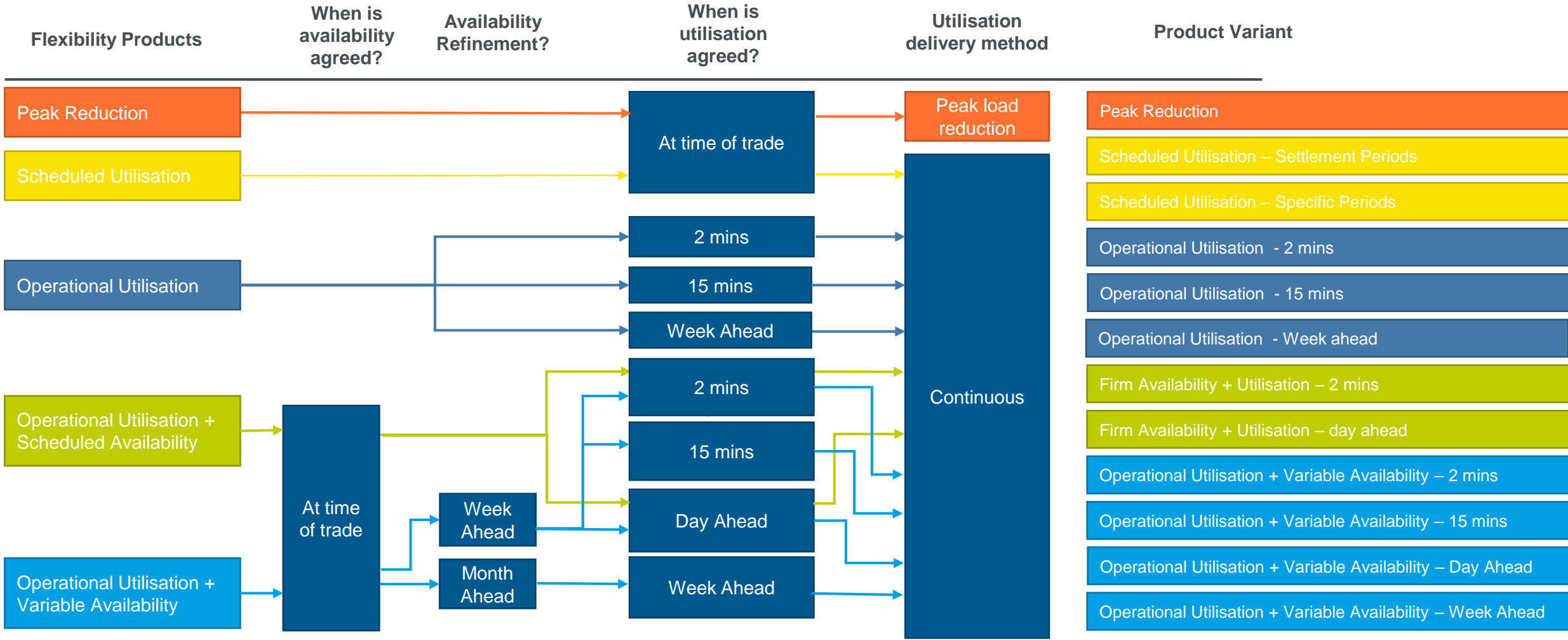
### ■ **Future-proofing**

- Future Governance process in place (via ENA Engineering Recommendations or similar) to manage future evolutions to prevent future deviation while still providing route to market for new innovative products

# Standardised products

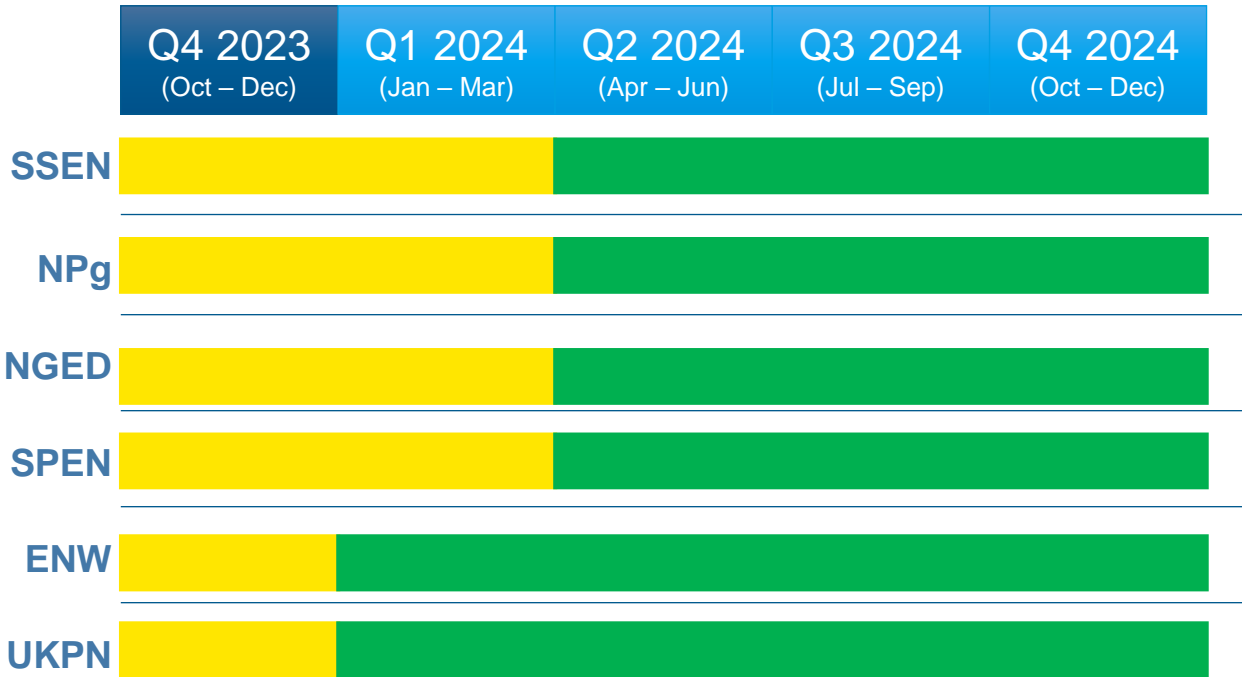
Product name	Network Requirement	Example of how it may be used (other uses are possible)	Payment Structure
<b>Scheduled Utilisation</b>	Advanced planning for the management of the forecasted seasonal demand on the network	Network Asset reinforcement deferral	Utilisation payment only
<b>Operational Utilisation</b>	Supplement (in nearer-real time) the management of the seasonal demand on the network	Network maintenance requiring planned outage management	
<b>Peak Reduction</b>	To manage an ongoing requirement to reduce peak demand	Energy Efficiency	
<b>Operational Utilisation + Scheduled Availability</b>	To support the network during fault conditions, often during planned maintenance work	Unplanned fault management	Availability and Utilisation payments
<b>Operational Utilisation + Variable Availability</b>	To support the network during faults that occur as a result of equipment failure and unplanned maintenance	Network restoration	

# Proposed Flexibility Products



# Product Migration Plans

*New procurement only listed here – anticipated dates*



## Key





## Dependencies to the schedule

- System changes to needs assessment, procurement, service selection, scheduling, dispatch, and settlements
- Contractual changes to service terms and payment calculations
- Communication/education of market (including ‘Which product’ excel spreadsheet calculator)

Workstream	Technical working group	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Market Development	Flexibility Products	Updated active power product definition/specification												
							Implementation plan							
										Implementation and revision as appropriate				
										Flexibility Product Catalogue Stackability update		Non-standard products review		

Key
Annual update
Development stage
Stakeholder engagement
Implementation
Continuation of group or work

# Q&A

# Procurement process

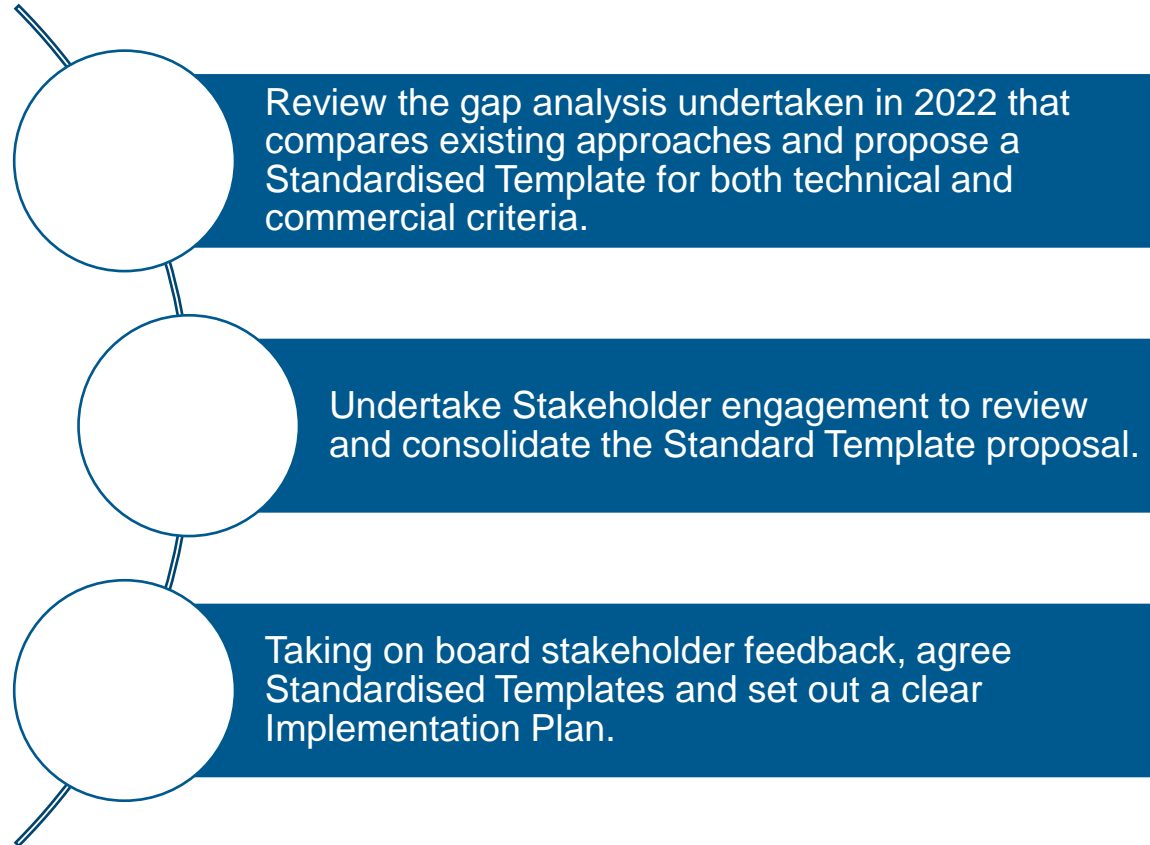
## Introducing aligned pre-qualification

Helen Sawdon (NG ED, technical working group Lead)

## 2023 Objectives

### Open Networks Steering Group challenge for 2023;

- Deliver full Technical & Commercial standardisation
- Exceed TWG deliverable timeline
- Remove barriers to achieve prompt internal implementation



# Outcomes - Summary

Then;

No. of questions asked at point where gap initial analysis was carried out;

	Commercial	Technical	Total
ENW	93	80	<b>173</b>
NIEN	80	22	<b>102</b>
NPg	16	47	<b>63</b>
SPEN	25	30	<b>55</b>
SSEN	45	32	<b>77</b>
UKPN	44	80	<b>124</b>
NGED	17	16	<b>33</b>
Grand Total	320	307	<b>627</b>

Now;

- 30 standard questions for Commercial Qualification
- 34 standard questions for Technical Qualification
- Standardised replicable data layer

# Commercial Template

Area	Field Name	Commercial Qualification Questions	Allowable Responses	Pass Criteria
Company Information	COMM_CI_CNAME	Registered or legal name of the contracting party	free text	completed
	COMM_CI_REGNO	Company Registered Number [Or Charity/Trust]	free text	completed
	COMM_CI_REGA1	Registered address 1	free text	completed
	COMM_CI_REGA2	Registered address 2	free text	completed
	COMM_CI_REGA3	Registered address 3	free text, blank	completed, blank
	COMM_CI_POSTC	Registered address postcode	free text	completed
	COMM_CI_FIRST	Key contact First Name	free text	completed
	COMM_CI_CLAST	Key contact Last Name	free text	completed
	COMM_CI_EMAIL	Key contact email	free text	completed
	COMM_CI_TELNO	Key contact number	free text	completed
	COMM_CI_WEBSI	Organisation website	free text	completed
	COMM_CI_RELAT	Legal relationship with flexibility asset/s	Owner, Operator, Aggregator	one code completed
COMM_CI_VATNO	VAT Registration Number	free text	completed	
Terms and Conditions	COMM_TC_ACCEP	Confirm; Acceptance of ENA_Standard Flexibility Services Agreement	Y, N	Y
	COMM_TC_DECLA	Do you declare that you have the authority to submit this application and by confirming you declare that to the best of your knowledge, the information in this form is accurate and true?	Y, N	Y
Due Diligence	COMM_DD_FLEXA	Is the contracting party a member of Flex Assure Code of Conduct?	Y, N	Y, N
	COMM_DD_ACHIL	Contracting parties Achilles UVDB Registered No. if applicable	free text, blank	completed, blank
	COMM_DD_CHECK	Where Achilles UVDB registration has not been advised, you understand that the DNO may access the contracting Parties most recent audited financial accounts via Compulsory Audit?	Y, N, NA	Y, NA
	COMM_DD_RECEI	Is this contracting party currently, or has it ever been in receivership?	Y, N	N
	COMM_DD_ADMIN	Is this contracting party currently, or has it ever been in administration?	Y, N	N
	COMM_DD_LIQUI	Is this contracting party currently, or has it ever been in liquidation?	Y, N	N
	COMM_DD_DEBTS	Is this contracting party currently, or has it ever been unable to pay its debts as they fall due (within the meaning of Section 268 Insolvency Act 1986)?	Y, N	N
	COMM_DD_WINDI	Is this contracting party currently, or has it ever had, in the past 3 years, any petitions for winding up (other than vexatious petitions)?	Y, N	N
	COMM_DD_BANKR	Is this contracting party currently, or has it ever had any petitions for bankruptcy (or their equivalent in the country in which the Applicant is incorporated) within the last three years?	Y, N	N
COMM_DD_OFFEN	Is this contracting party currently, or has it ever been convicted of any of the offences or has any discretionary exclusion occurred, as contained in Regulation 80 of the Utilities Contract Regulations 2016 (UCR), and listed in Regulation 57 (1) and 57 (8) of the Public Contracts Regulations 2015 (PCR)? [IF IN SCOTLAND, Is this contracting party currently, or has it ever been convicted of any of the offences or has any discretionary exclusion occurred, as contained in Regulation 78 of the Utilities Contract (Scotland) Regulations 2016 (UC(S)R), and listed in Regulation 58 of the Public Contracts (Scotland) Regulations 2015 (PC(S)R)?]	Y, N	N	
COMM_DD_TERMI	Is this contracting party currently, or has it ever had, in the past 3 years, any similar contracts terminated prematurely and/or had damages claims or other comparable sanctions brought against the contracting party for any significant or persistent deficiencies in performance of a substantive requirement of the contract?	Y, N	N	
COMM_DD_LITIG	Has the contracting party been subject to any material non-employment related litigation (pending, threatened or determined) or other legal proceedings against the contracting party within the last three years that may be relevant to your ability to deliver services.	Y, N	N	
Insurance	COMM_IN_EMPLO	Does the contracting party have or commit to have Employer's liability insurance with a minimum limit of £5m	Y, N	Y
	COMM_IN_PUBLI	Does the contracting party have or commit to have Public liability insurance with a minimum limit of £10m	Y, N	Y
	COMM_IN_COPIE	Will the contracting party provide copies of such insurances upon request	Y, N	Y

## Commercial - Big Wins and Deviations

### **Contracting Party**

Clear questions, reducing the number of 'in the case of' questions

### **Due Diligence**

No. of questions vastly reduced and less onerous to complete

### **Insurance**

Reduced to only two requirements and values lowered to minimum statutory limits remain

### **Deviations**

NGED have already adopted an overarching contract approach and as such need to collect billing information from FSP at the point of contract; this will happen through a separate secure system/process.

NPg will continue to collect information security data, this will likely be collected through a separate process

Alignment of these will happen as more DNOs adopt an overarching contract approach

# Technical Template

Area	Field Name	Technical Qualification Questions	Allowable Responses	Pass criteria
Connection	TECH_CN_STATUS	DER Connection status	Energised, Awaiting Energisation, Planned,	Energised, Awaiting Energisation, Planned,
	TECH_CN_AWAI1	If awaiting energisation, firm date of energisation	DD/MM/YY, NA	Completed
	TECH_CN_AWAI2	If awaiting energisation, connection reference number	Free text, NA	Completed
	TECH_CN_PLAN1	If planned, connection voltage level	11, 33, 132, NA	Completed
	TECH_CN_PLAN2	If planned, connection offer status	Not yet applied, applied awaiting offer, offer	Not yet applied, applied awaiting offer, offer
	TECH_CN_PLAN3	If planned, connection reference number	Free text, NA	Completed
	TECH_CN_PLAN4	If planned, what is the target delivery date?	DD/MM/YY, NA	Completed
	TECH_CN_SPEC1	If speculative, service readiness date	DD/MM/YY, NA	Completed
	TECH_CN_SPEC2	If speculative, recruitment status	ASSET CONTRACTED, ASSET KNOWN, ASSET	
	TECH_CN_SPEC3	CMZ Location	Free text, NA	Completed
Site/Location	TECH_LN_POSTC	If Energised, Awaiting Energisation, Planned; Postcode	free text	Completed
	TECH_LN_IMPAN	If Energised, Awaiting Energisation, Planned; Import MPAN (Meter Point Administration Number) If known	free text (13 Characters), NA	Completed
	TECH_LN_EMPAN	If Energised, Awaiting Energisation, Planned; Export MPAN (Meter Point Administration Number) If known	free text (13 Characters), NA	Completed
	TECH_LN_MSID1	If Energised, Awaiting Energisation, Planned; MSID (where applicable)	free text, NA	Completed
	TECH_LN_ANAME	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Name/Ref	free text	Completed
Technology	TECH_TG_GROU1	Asset Scale	DOMES, CANDI	Completed
	TECH_TG_GROU2	Metering Point	POIOC, ASSEL	Completed
	TECH_TG_GROU3	DER Type; Generation &/OR Storage	Y, N	Y, N
	TECH_TG_GROU4	DER Type; Demand	Y, N	Y, N
	TECH_TG_GSCL1	If Generation &/OR Storage, Energy Source	BACAS, COMAS, ENGCR, GASTU, GEOPP, HYDPS,	Completed
	TECH_TG_GSCL2	If Generation &/OR Storage, Energy Conversion Type	ADVAF, BIFAD, BIOLG, BIOOT, BIOSG, BIOMA,	Completed
	TECH_TG_DDCLS	If Demand, Technology Type	AIRSO, GRSHP, WASHP, HYBHP, EVCHP, EVVTG,	Completed
	TECH_TG_ACTIV	Service Type; Can respond to Active Services	Y, N	Y, N
	TECN_TG_REACT	Service Type; Can respond to Reactive Services	Y, N	Y, N
DER Parameters	TECH_PS_INCAP	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Installed capacity (MW)	free text	Completed
	TECH_PS_FCDTU	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Flexible Capacity - Demand Turn-up (MW)	free text	Completed
	TECH_PS_FCDTD	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Flexible Capacity - Demand Turn-down (MW)	free text	Completed
	TECH_PS_FCGTU	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Flexible Capacity - Generation Turn-up (MW)	free text	Completed
	TECH_PS_FCGTD	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Flexible Capacity - Generation Turn-down (MW)	free text	Completed
	TECH_PF_MINOD	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Min Operating Duration (HH:MM)	HH:MM	HH:MM
	TECH_PF_MAXOD	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Max Operating Duration (HH:MM)	HH:MM	HH:MM
	TECH_PS_RESPO	DER [IF SPECULATIVE, THEN AGGREGATED GROUP] Response Time (minutes)	HH:MM	HH:MM
	TECH_PS_RECOV	Recovery Time; The time required by the DER [IF SPECULATIVE AGGREGATED GROUP] to recover from one instruction until the next instruction can be actioned.	HH:MM	HH:MM
Metering	TECH_PS_METER	Metering Granularity (minute, HH)	MIN, HH	MIN, HH



## Technical - Big Wins and Deviations

### Connection Status

A one size fits all approach to DER with different statuses

### Technology identity

As standard set of groupings aligned to reporting needs

### DER Parameters

Future proof and aligned to other TWG outcomes

### Deviations

NGED are proposing to collect an additional granularity of data where multiple DER of varying technology types are metered at the same Point of Connection, this will improve baseline accuracy.

## Next Steps – DNO Implementation

2023										2024		
March	April	May	June	July	August	September	October	November	December	January	February	March
Propose Standardised templates				Stakeholder Feedback	Finalise templates		Implement					

- All DNOs expect to adopt when they carry out their next procurement activity, provided the templates are final and there is time to implement (most will launch an Oct round)
- However, dependencies may delay full implementation out to next procurement (generally in Spring);
  - It may be logical for DNOs to align implementation with any change to a ‘Overarching Contract’ (Framework style) approach to flex contracting.
  - Any required process and system development (internal/external) completed in time.
  - DNOs currently undertaking individual assessment, more detail to be collated at next TWG meeting.

# Q&A

# 10 Minute Break



# Settlement process

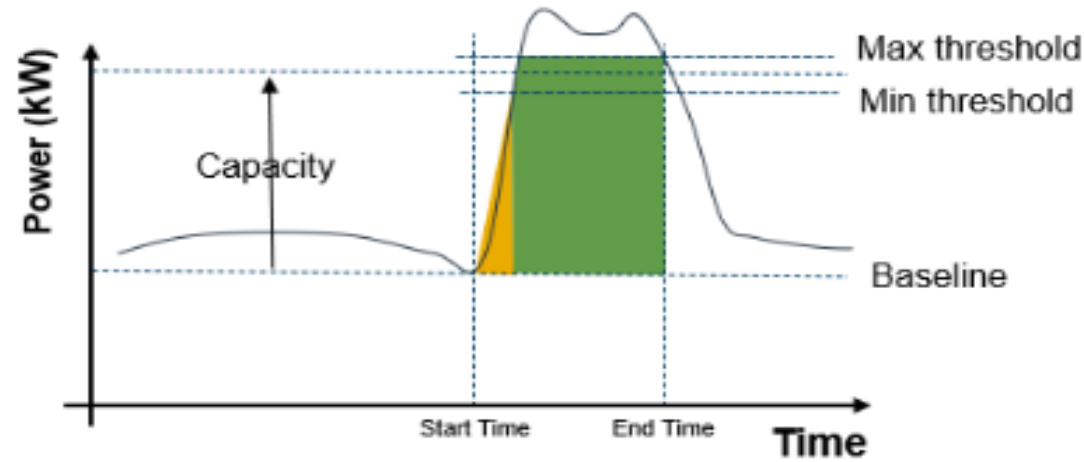
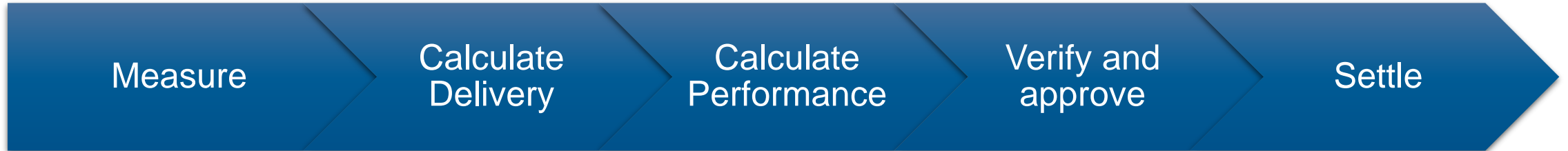
## Aligning settlement processes

Gavin Stewart (SSEN D, technical working group Lead)

# Introduction to Settlement

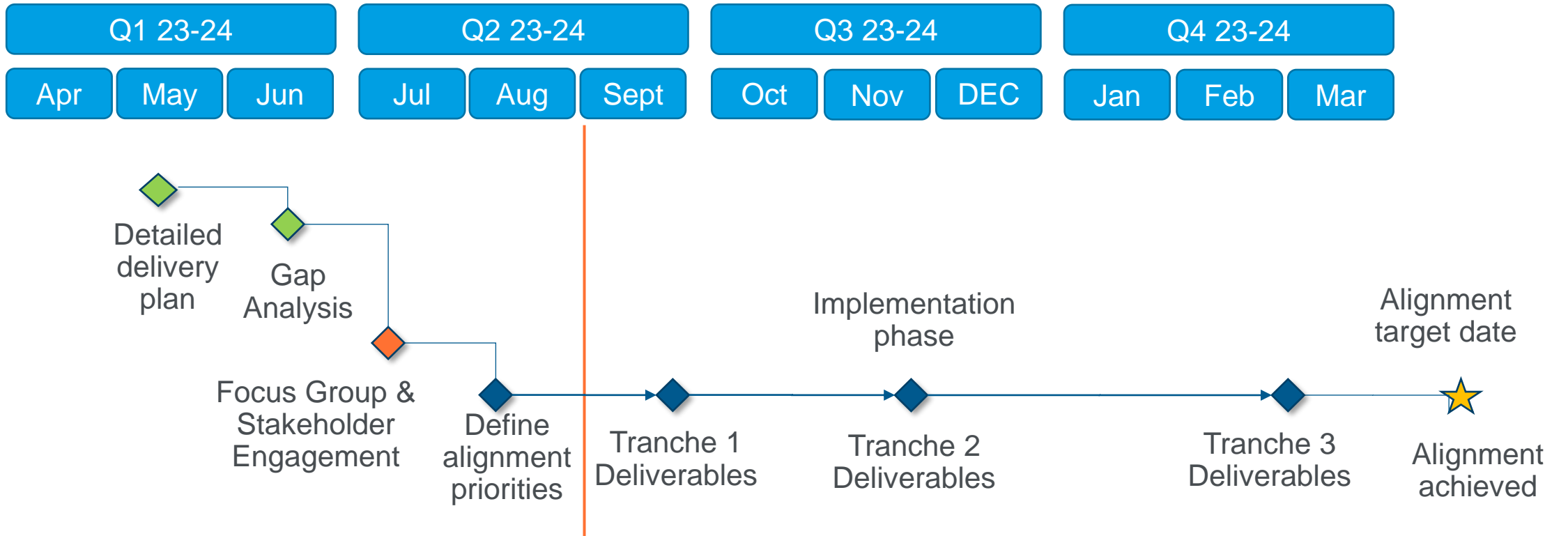
Main Outcome:

**Settlement process for the standardised flexibility service products to follow common settlement process by April 2024**



# Settlement Process Milestones

Settlement Process



# Delivery Items



## Item 1: Metering Granularity

### **Agreed Alignment:**

Minute-by-minute and half hourly data, will be accepted for settlement purposes. Certain products rely on minute-by-minute metering granularity for accurate performance monitoring and settlement. Where an alternative to minute-by-minute granularity is provided the data may be disaggregated. As such, this could result in performance monitoring and calculation inaccuracies.

### **Target Delivery date:**

DNO's are to adopt the wording into the October 2023 tender round.

## Item 2: How often payments are made

### **Agreed Alignment:**

Payments will be made monthly; the date of payment may be different due to DNO internal processes.

### **Delivery Plan**

DNO's are implement by November 2023.

## Item 3 & 4: Over and Under Delivery

### **Agreed Alignment:**

DNO's have agreed there will be no payment for non-delivery, and no increased payment for delivery over the maximum threshold.

### **Target Delivery date:**

DNO's are to implement by November 2023.

## Item 5: Requested Metering Data

### **Agreed Alignment:**

Joint agreement on defined API parameters and CSV templates

### **Delivery Plan**

*DNO's to agree on the API & CSV standard messaging by April 2024. DNOs to subsequently implement this standard by Autumn 2024 tenders. This is to reflect the effort for platform providers and to accommodate any changes required following Phase 1 of Dispatch and System Interoperability. This also reflects that DNOs need to give sufficient time for FSPs to modify their own API systems to accept the new API and CSV standards.*

## Item 6: Metering Accuracy Standards

### Agreed Alignment:

For Asset Point Metering, the Provider will ensure compliance with the following metering standards set out within the most recent published relevant **Balancing and Settlement Code of Practice Eleven: code of practice for the metering of balancing services assets for settlement purposes:**

- the metering ‘accuracy requirements’
- ‘the asset meter calibration test certification’
- ‘the limits of error’
- The ‘sealing’ requirements

For Boundary Point Metering, the Provider should be compliant with Balancing and Settlement Codes of Practice 1, 2, 3, 4, 5 and 10 as applicable.

If requested by the Company, the Provider shall provide evidence of compliance with the above standards. This may be in the form of certification, photo, or written confirmation.

### Service Terms Glossary Definitions

#### **Asset Point Metering:**

Asset Point Metering means the metering measured directly from the DER and is downstream of the Boundary Point Metering.

#### **Boundary Point Metering:**

Boundary Point Metering means the metering measured at the point of supply from the DNO network.

#### **Target Delivery date:**

DNO’s are to adopt the wording into the October 2023 tender round.

## Item 7: Boundary and Asset Metering Locations

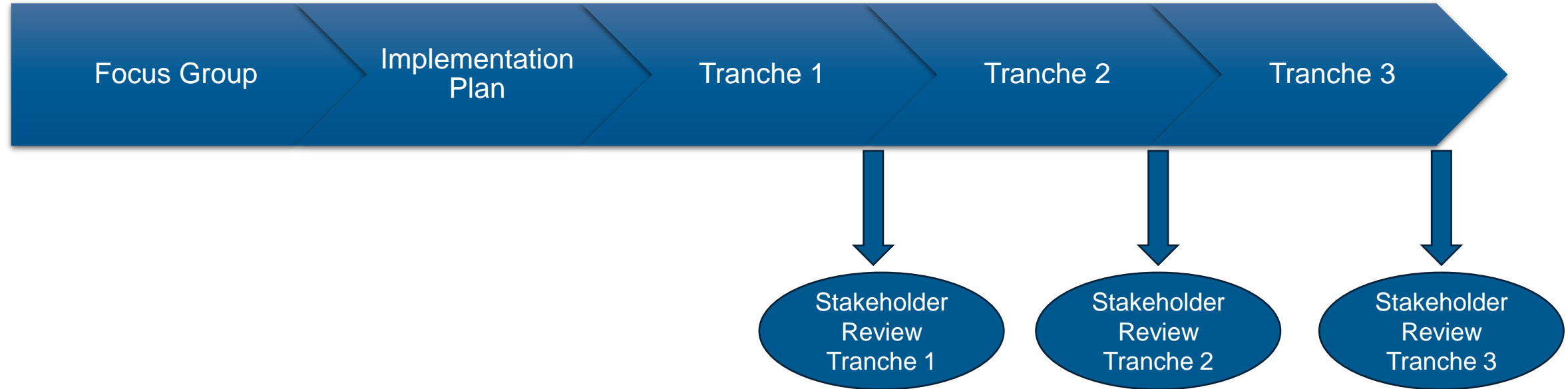
### **Agreed Alignment:**

DNO's have agreed to accept both boundary and asset metering locations and appropriate wording has already been added to the Flexibility Agreement.

### **Target Delivery date:**

Already delivered as part of Standard Contracts TWG

# Implementation Stages



# Q&A



# Dispatch systems

## Making dispatch systems interoperable

Tim Manandhar (UKPN) & Joe Davey (NG ED) (Technical working group co-Leads)  
& Ross McPherson (PNDC)

## Progress update and key deliverables

### Progress so far:

- PNDC contracted to work on the project
- Engagement with Ofgem's OGS consultants
- Engagement plan and delivery approach agreed
- Focus group engagement

### Key Deliverables:

- **Phase 1: Gap analysis and Dispatch requirements**
  - **Deliverable 1:** High-level assessment of gaps for systems interoperability in all areas of Flexibility services
  - **Deliverable 2:** Detailed requirements for dispatch including a methodology to select dispatch options
- **Phase 2: Comparative analysis of all dispatch options**
- **Deliverable 3:** Objective assessment of options to inform the selection of the most suitable standard
- **Phase 3: Implementation**

## Key Take Homes : What Flexibility Service Providers want

- Agreed that developing consistency in the market and wider eco-system would be **extremely beneficial to grow liquidity**
- Wished to have **greater visibility** of potential commercial opportunities
- Generally, don't care about specific platform
  - provided it is **consistent, has longevity**, and is relatively **simple to interface with**
- Strong preference for deploying a solution now
  - then iterate – **don't wait** for "the perfect solution"
- Prefer a common digital life-cycle engagement between all DNOs / DSOs
  - including Tendering, PQQ, Contracts, Dispatch and Settlement
- Mixed on feelings on whether a “confidence parameter” is required or not
  - but had no strong feelings on the matter
- No strong feelings on including a unique asset identifier
  - felt it is a DNO / DSO issue

## Key Take Homes : What Flexibility Service Providers want

- Preference to employing modern technologies (HTTP REST vs XML SOAP)
  - more established ecosystem of developers
- Highlighted the importance of trial sandboxes to explore and experiment
  - even over supporting documentation as that can be interpreted differently
- Recognise the importance of cyber security
  - but consider it to be platform issue
- Would look forward to stable APIs for automation
  - but also email notifications for information
- Generally sought iteration on a design, albeit without breaking backwards compatibility
  - versioned systems, support different versions of an API, with implementers able to upgrade when they felt it was worthwhile

## Key Take Homes : What DNOs / DSOs want

- Data portability between dispatch platforms
  - noted the need to integrate with a range of internal systems
  - including network data
- Want linkage between market data, dispatch and settlement
  - able to be linked up through a single platform
- Want clear control/accountability for platform interactions and issues
- Would like, and value, a simple user interface (UI) for any system like this

# Gaps Identified

## Interoperability Gaps

- Co-ordination
- Flexibility Procurement
- Dispatch & Control
- Platform Transaction Settlement
- Platform Market Services
- Analytics and Feedback

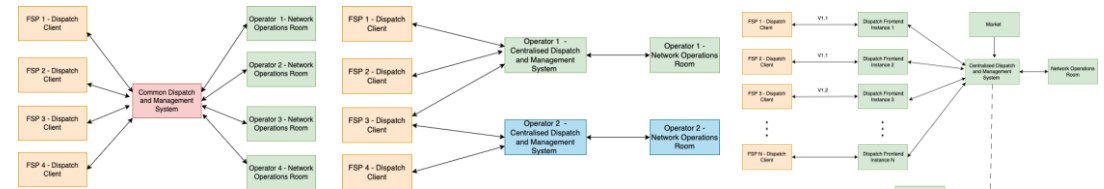
## Other Gaps

- Cyber security
- Governance and Accountability
- Standards vs APIs

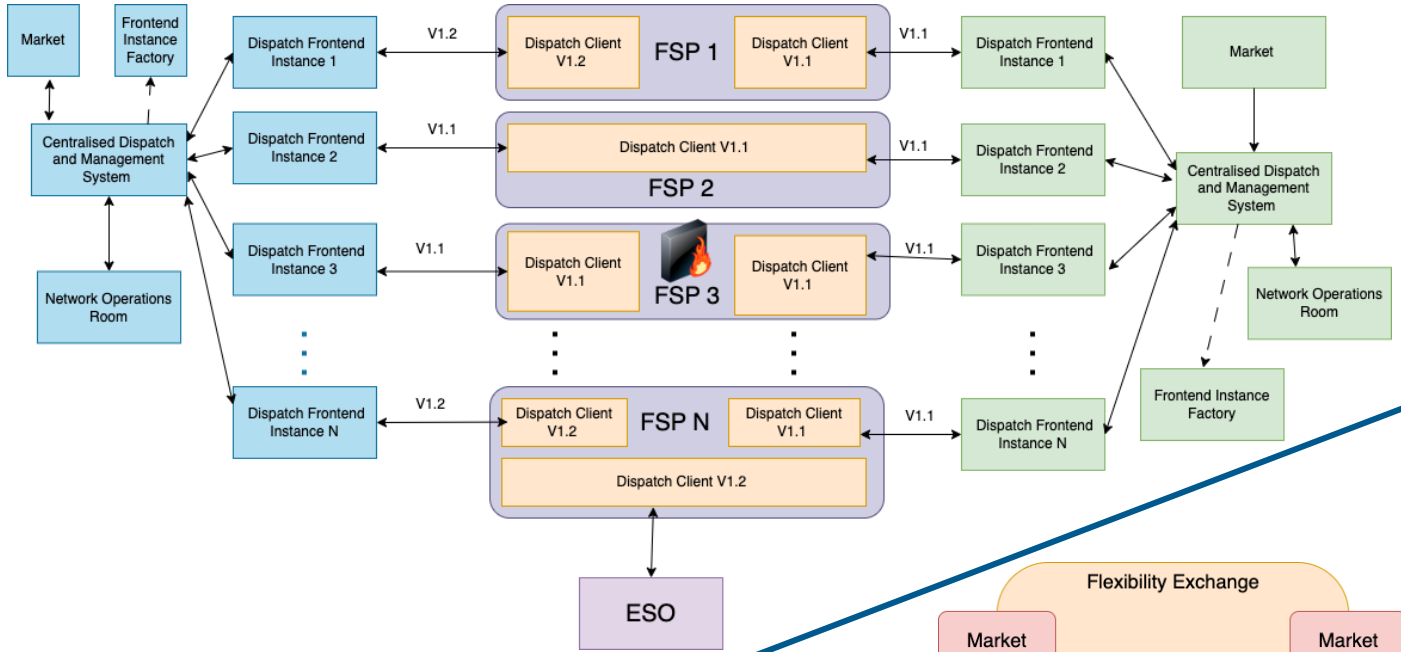
## Dispatch Requirements (D2)

- Communication
- Security
- Testing
- Architecture

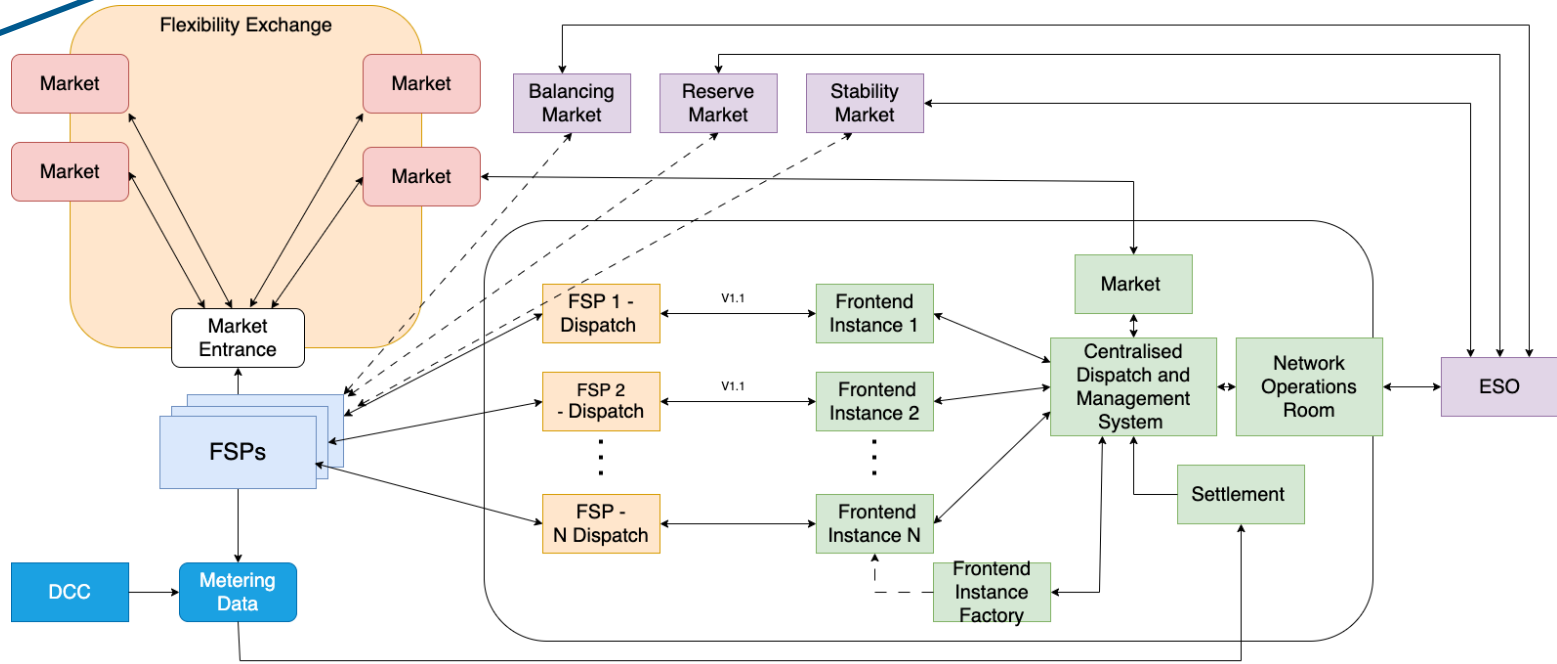
What is the architecture?  
Who is the server?



*Sharded  
Architecture with  
Multiple  
Operators*



*Market, Dispatch  
and Settlement  
Functionality  
Combined*



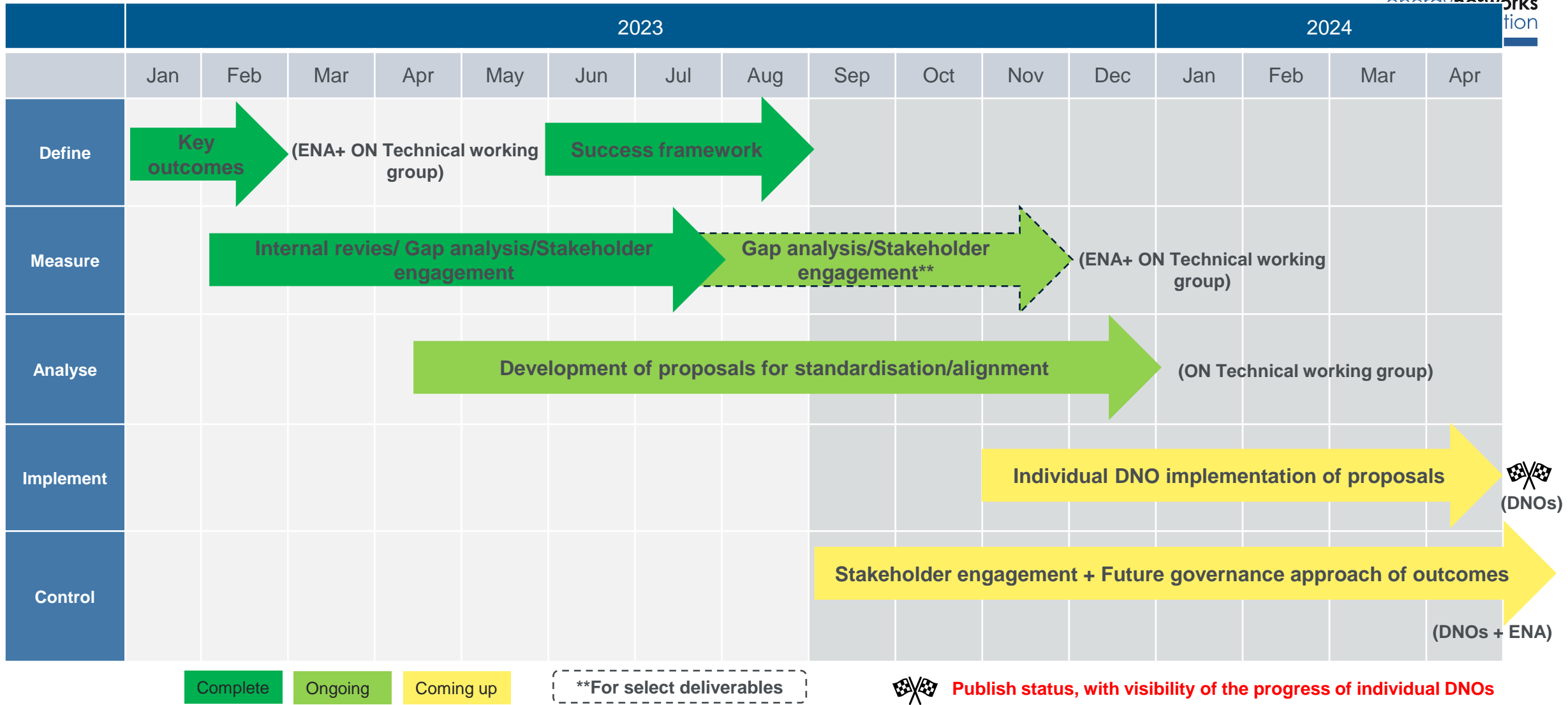
# Q&A



# What's next for Open Networks Upcoming ENA events

Helen Jarva (ON Project Manager, ENA)

# What's next for Open Networks



## Upcoming ENA events

### **Energy Innovation Summit**

[Registration is open](#) for ENA's 2023 Energy Innovation Summit, held in Liverpool on 31<sup>st</sup> October – 1<sup>st</sup> November.

### **Next for Net Zero series: Building a resilient energy system**

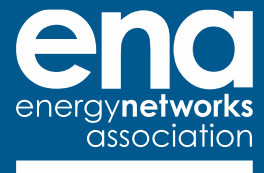
Focus on the measures the networks have in place to keep our system resilient and secure in the face of storms and bad weather, as well as cyber security.

[Register online](#) for 2<sup>nd</sup> November, 13:00 – 14:30

### **Transport + Energy Forum – Further and Faster: accelerating the transition to a decarbonised future**

[Registration is open](#) for the Transport + Energy Forum, held in Birmingham on 16<sup>th</sup> November. This Forum will explore how energy and transport networks can move faster to meet the challenge of decarbonisation.

# Open discussions, Q&A and reflections



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