

Open Networks

Leading the transition to a smart and flexible energy system

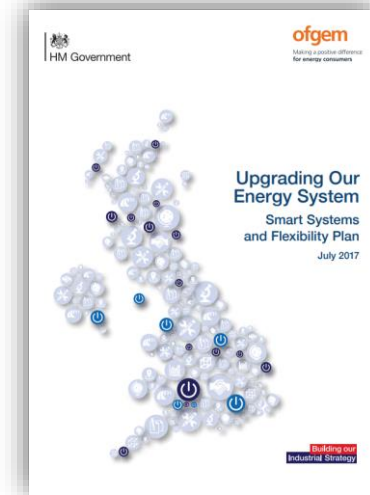
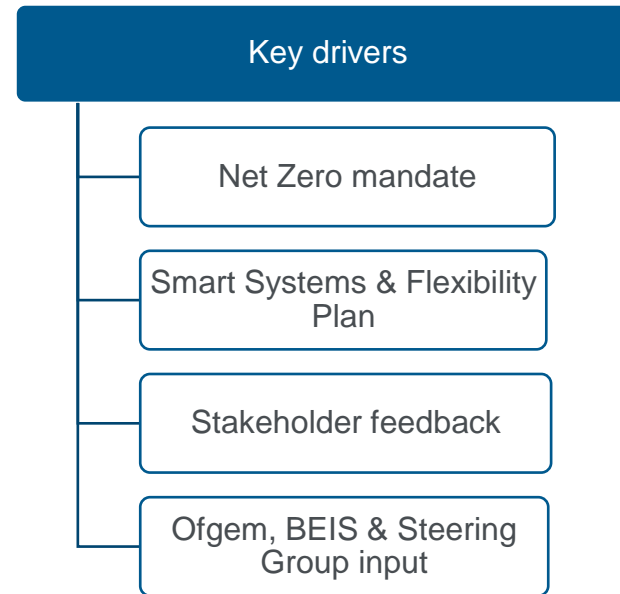
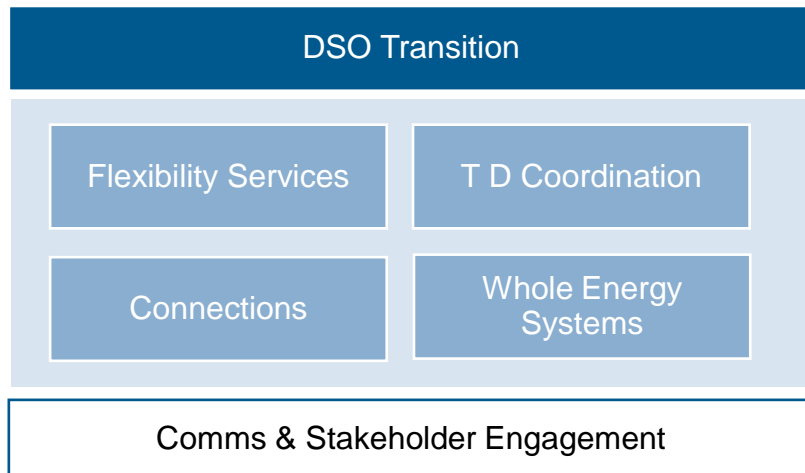
Dr. Avi Aithal – Head of Open Networks, ENA

Oxford Energy Innovation Forum
19th Sep 2023

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



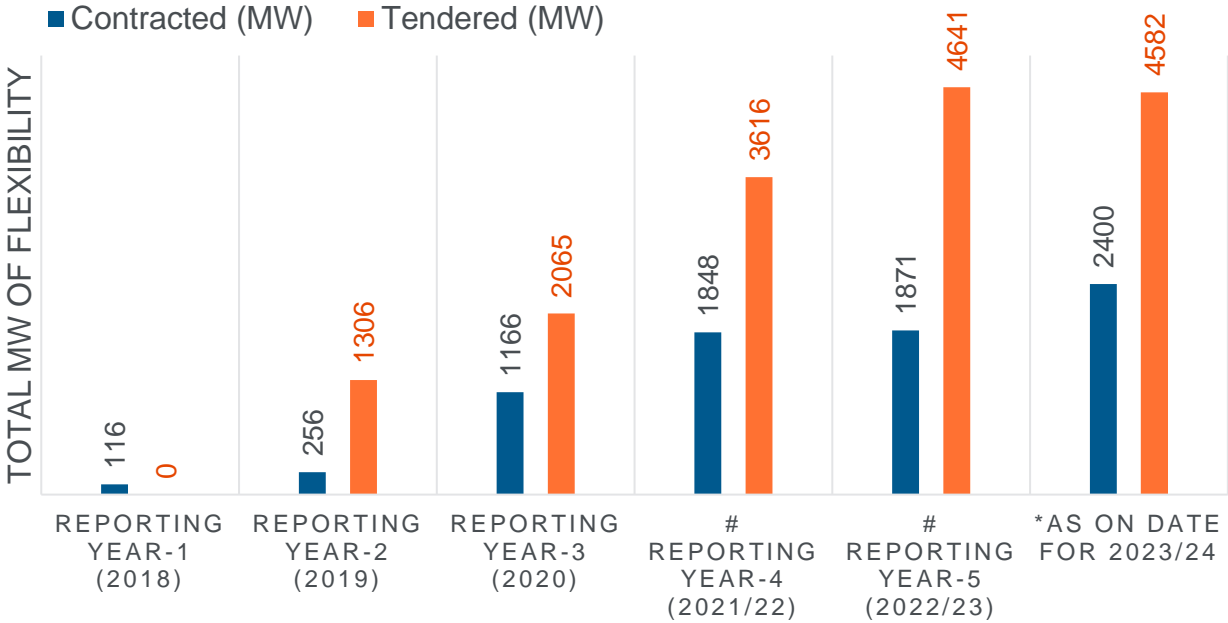
Open Networks – Delivering a Smart Grid

	2018-2022	2023
DSO Transition	<ul style="list-style-type: none"> DSO worlds + Detailed SGAM models Impact assessment + Pathways DSO Implementation plan 	<ul style="list-style-type: none"> BaU
Connections	<ul style="list-style-type: none"> Embedded Capacity Register Queue Management Interactivity guide 	<ul style="list-style-type: none"> Progressed via the Strategic Connections Group
Whole Energy Systems	<ul style="list-style-type: none"> Whole system CBA Support LAEP (Best Practice Guide) Gas & Electricity Network co-ordination 	<ul style="list-style-type: none"> Progressed via the Whole System Strategy Group

	2018-2020	2021-2022	2023
Flexibility Services	Development of business case	Development of technical specs	Open Networks
T D Coordination and data	Flex first commitment	Development of processes	
	Mkt Principles	Flexibility as BaU	

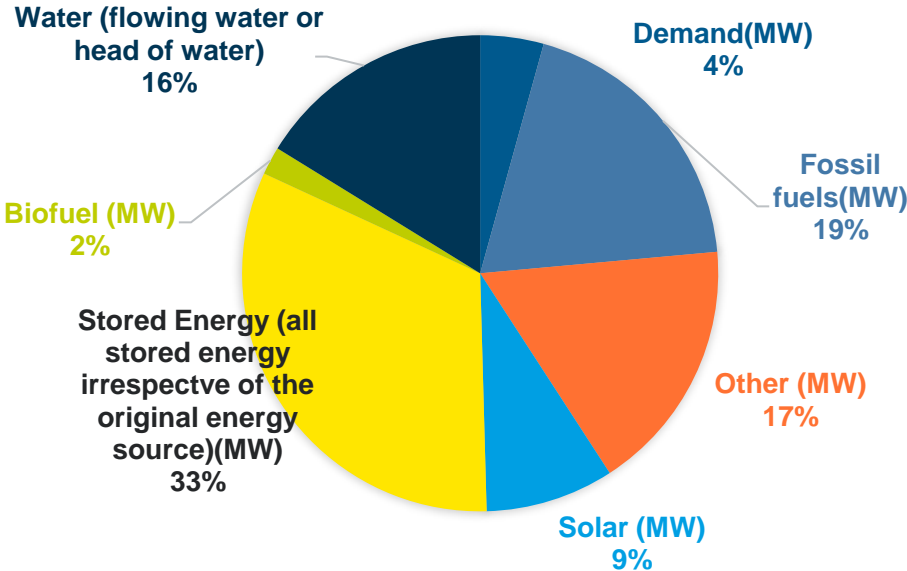
Local Flexibility Market- State of play (Flex figures)

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



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

Technology breakup of contracted flexibility for delivery in 22/23

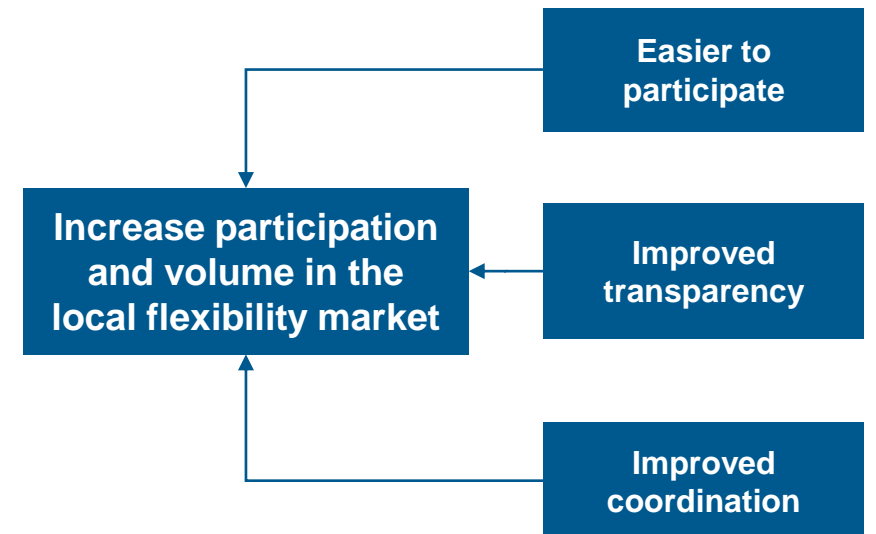


Open Networks 2023

In 2023, Open Networks is looking to demonstrate our ambition to delivering tangible consistent changes to industry practices across the participating members.

The focus of Open Networks will be to increase participation and volume in the local flexibility market. In line with the actions from the [BEIS and Ofgem's Smart system Flexibility plan 2021](#), 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.

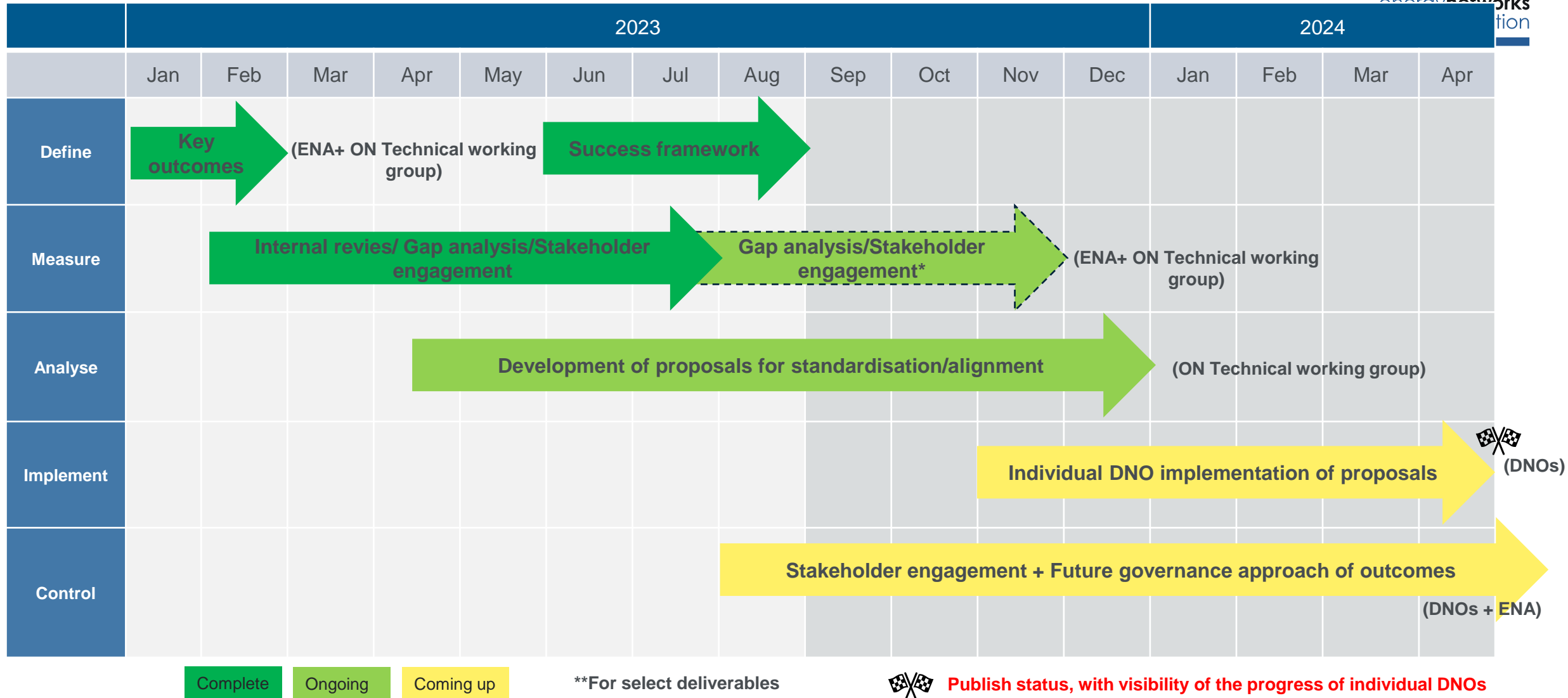


Overview of outcomes

Focus areas	Main outcomes	Description of result	Target Date
Making it easier for flexibility service providers to participate	Standardisation of Flex products	80% of total volume of flexibility tendered by DNOs will be with common products having common technical specifications	By Apr 2024
	Standardisation of Pre-qualification	All assets registering for distribution flexibility services will use standard data for technical and commercial pre-qualification	By Apr 2024
	Standardisation of Flexibility contracts	All DNOs will use common T&Cs and schedule headings for all flexibility contracted.	By Apr 2024
	Standardisation of Dispatch API	All DNOs adopt common API specification for dispatch of flexibility.	By Apr 2024**
	Standardisation of Settlement process	All DNOs adopt a common settlement approach for flexibility.	By Apr 2024
Improving operational coordination between networks and companies	Implementation of Primacy rules	All DNOs and ESO implement designed processes and information flows to implement primacy rules (increments 1 and 2).	By Apr 2024**
	Harmonisation of data shared between DNO-ESOs	Consistent bilateral operational data exchange between all DNOs and ESO.	By Apr 2024**
	Harmonise DER visibility Information	All DNOs use consistent DER visibility specifications ('Go' or 'No go' decision to be taken in Sep 2023).	By Dec 2023**
Improve the transparency of processes, reporting	Consistent Network development plans	All DNOs report using the agreed Network Development Plan (NDP) format	By Jun 2023
	Consistent Network co-ordination activities	All DNOs report using the agreed whole electricity system co-ordination register format.	By Jun 2023
	Consistent Carbon Reporting	All DNOs report using the agreed carbon reporting methodology for 2023 & 2024 SLC 31E submissions.	By Jun 2023
	Consistent Flex Reporting	Publication of flexibility figures collated from SLC 31E submissions (including technology break down).	By Aug 2023

** Part of continued development

Next Steps



Useful Links

Open Networks
2023 programme
overview

Open Networks
2023 Success
Framework-
Details of key
outcomes

ENA ON GB
Flexibility
Figures
2023/2024

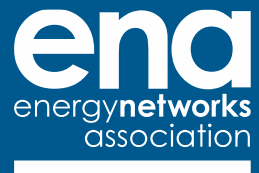
Insights Forum
applications

Stakeholder
events &
supporting
material

We welcome feedback and your input

Opennetworks@energynetworks.org

Click [here](#) to join our mailing list



Energy Networks Association

4 More London Riverside

London SE1 2AU

t. +44 (0)20 7706 5100

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[energynetworks.org](https://www.energynetworks.org)

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The voice of the networks