

Webinar





ENGAGE WITH US

Ask questions throughout the session, give us feedback and stay engaged

You can do this by raising your hand, or putting a comment into the chat.







AGENDA

10:00 – 10:05	Welcome, Introduction – Catherine Winning
10:10 – 10:25	Flexibility Products – Ronke Ajadi
10:25 – 10:40	Approach for Short-term bidding, rules and Process – Catherine Winning
10:40 - 10:50	Electron Connect Platform
10:50 – 11:00	Q&A



SSEN DISTRIBUTION

WHO WE ARE

We're Scottish and Southern Electricity Networks Distribution. We look after the electricity cables that bring the power to your property and 3.9 million other homes and businesses across central southern England and the north of Scotland.

OUR DISTRIBUTION NETWORK AT A GLANCE

Over 3.9 million

homes and businesses across the north of Scotland and central southern England

More than **937,300** customers on our Priority Services Register

Over **128,000km** of overhead lines and underground cables

460km subsea cables powering island communities

Over **4,100** employees across the country



NEW PQQ, MINI-COMPETITION & BIDDING WINDOW TIMELINES





	Deadline
Ready for Long term Bidding on Electron Connect	29 th July
August Long Term Bidding Round Starts	12 th August 2024
Ready for Short term Bidding on Electron Connect	19 th August 2024
August/ Sept short term Bidding Round Starts	2 nd September 2024

Short-term Markets Webinar

LONG-TERM & SHORT-TERM PRODUCTS OVERVIEW

Ronke Ajadi,

Flexibility Agreements Manager



DSO Powering Change

FLEXIBILITY PRODUCTS

	Product	Description	Decision timescales	Payment
	Peak Reduction	This product seeks a reduction in peak power utilised over time. This response can manage peaks in demand.	Utilisation Instruction: At Trade	Utilisation
ıcts	Scheduled Utilisation	In this product, the time that flexibility is delivered has been pre-agreed in advance with the provider.	Utilisation Instruction: At Trade	Utilisation
Flexibility service products	Operational Utilisation	This product allows for the use case where the amount of flexibility delivered is agreed nearer to real time.	 Utilisation Instruction: Real Time or Week Ahead 	Utilisation
	Scheduled Availability + Operational Utilisation	This product procures, ahead of time, the ability of an FSP to deliver an agreed change following a network abnormality.	 Availability Refinement: Not allowed Utilisation Instruction: Real Time or Day Ahead 	Availability + Utilisation
	Variable Availability + Operational Utilisation	This product allows for DNOs and the ESO to procure a level of contracted capacity, but then refine the requirements in terms of availability closer to the event.	 Availability Refinement: Week Ahead or Month Ahead Utilisation Instruction: Real Time or Day Ahead or Week Ahead 	Availability + Utilisation

THE SERVICES WE WILL BE USING

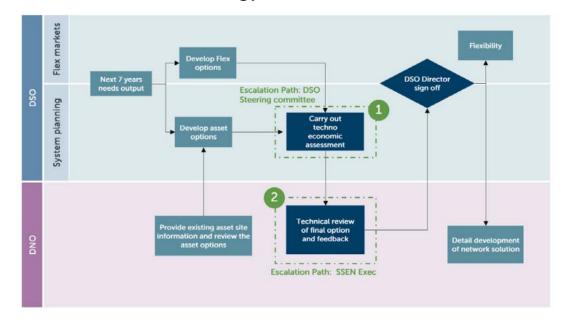
Bidding Round Start Date	Product Short Name	Product Long Name	Payment	Availability Refinement Timescale	Utilisation Instruction Time Scale
12 th August	VAOU_WA	Variable Availability + Operational Utilisation - Week Ahead	Availability + Utilisation	Month Ahead	Week Ahead
2 nd September	SAOU_DA	Scheduled Availability + Operational Utilisation - Day Ahead	Availability + Utilisation	N/A	Day Ahead

The 12th August is a Long-term bidding round, with the earliest service delivery from Spring 25

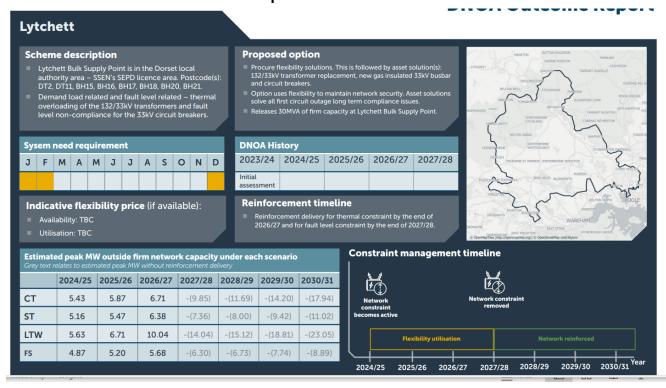
The 2nd September is a Short-term bidding round, with the service delivery for the month of October.

IDENTIFYING THE NEED FOR FLEXIBILITY

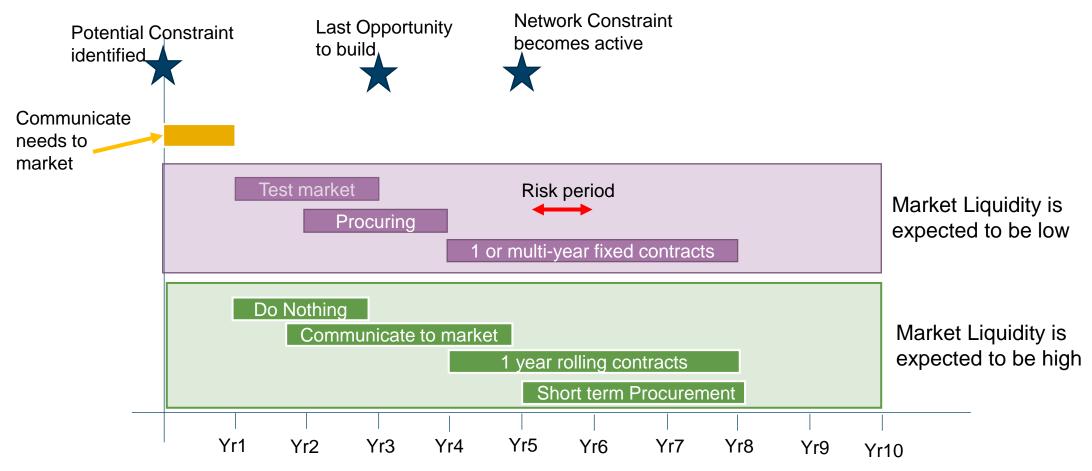
DNOA Methodology



DNOA Outcomes Example



MARKET LIQUIDITY WILL DETERMINE WHEN WE PROCURE FLEXIBILITY





LONG TERM REQUIREMENT AREAS

SEPD

<u>CMZ</u>	<u>Licence Area</u>
* Subject to Change	
Beaconsfield	SEPD
Lychett	SEPD
Ealing	SEPD
Southfield Road	SEPD
Boston Manor	SEPD
Canal Bank	SEPD
Hayes	SEPD
Vicarage Farm Road	SEPD
North Hyde 11kV	SEPD
The Green	SEPD
Bath Road East	SEPD
Northolt	SEPD
Yiewsley	SEPD
Causeway	SEPD
Charlbury – Woodstock	SEPD
Cowley Local	SEPD

SHEPD

<u>CMZ</u>	<u>Licence Area</u>
* Subject to Change	
Culloden	SHEPD
Burghmuir	SHEPD
Abernethy	SHEPD
Stoneywood	SHEPD
Springhill	SHEPD
Montrose North	SHEPD
Muir of Ord	SHEPD



AUGUST 2024: SAOU- DAY AHEAD

<u>CMZ</u>	<u>Licence Area</u>	Estimated Capacity Required (MW)	Estimated Service Window	<u>Availability Days</u>
* Subject to Change				
Alderton	SEPD	0.19*	17:30-20:00*	28
Alresford	SEPD	TBD	17:00-18:00*	28
Ashton Park	SEPD	TBD	15:30-22:00*	28
Egham	SEPD	TBD	17:00-20:30*	28
Faringdon	SEPD	1.68*	15:00-22:00*	28
Goring	SEPD	TBD	16:30-21:00*	28
Harvard Lane	SEPD	0.22*	16:30-22:00*	28
Stokenchurch (AM)	SEPD	0.90*	07:30-08:30*	28
Stokenchurch (PM)	SEPD	0.90*	15:00-22:00*	28
Yetminster	SEPD	TBD	TBD	28
14 Yeovil	SEPD	TBD	TBD	28

These are indicative requirements

The requirements will change as short term forecasts become available.



DISCUSSION POINT

WHAT ADDITIONAL INFORMATION THAT WE DON'T PUBLISH WOULD BE HELPFUL TO YOU?

PARTICULARLY FOR SHORT TERM MARKETS





Catherine Winning,

Flexibility Markets Manager



DSO Powering Change

PARTICIPATION REQUIREMENTS

	Long Term Markets (> 3 months ahead of delivery)	Short Term Markets (<3 months ahead of delivery)
Signed Overarching Agreement		
Asset Registration		
Flexible Power Onboarded	×	
Settlement System Set Up	×	

Your Signed Overarching Agreement must be for the region you wish to bid in for (i.e. SEPD or SHEPD) and must include the service you wish to participate in.

For September Short-term bidding:

- all areas offered will be the SAOU Day Ahead Product.
- your signed overarching agreement must include the SAOU Day Ahead Product from the May minicompetition.



FLEXIBLE POWER CHANGE

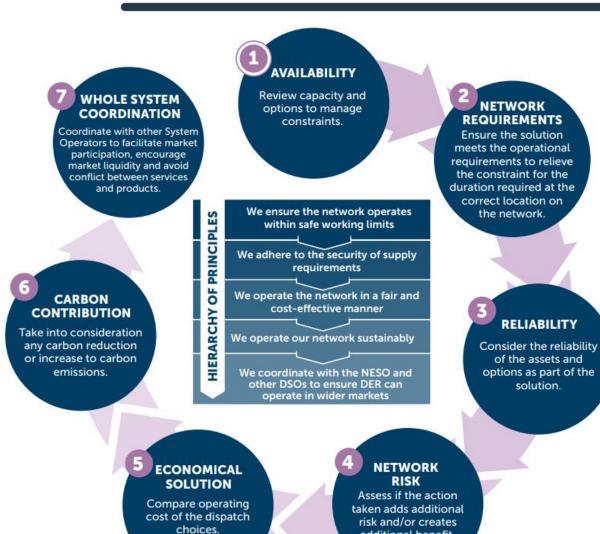
New API Dispatch – Version 2.



- Available 19th July
- Specification: Flexible Power Participant API Documentation (flexiblepowerportal.co.uk)
- v2 dispatch introduces an additional instruction type called "notice" and enhances the
 existing start/stop instruction types with the agreed power change.
 - Week ahead notices will be sent on prior Thursdays at 5pm
 - Day Ahead notices will be sent on prior days at 1:30pm
- Anyone using Version 1 will need to update the end points. v2 API testing page will be provided in the portal to self-test the integration.

OPERATIONAL DECISION MAKING

Short-term markets are influenced by our Operational Decision-**Making Process**



RELIABILITY

of the assets and

solution.

additional benefit.

Managing capacity

FLEXIBILITY SCHEDULING



The Flexibility Scheduling Engineer has run their monthly network analysis based on half-hourly demand data and from these studies they have identified a network need for generation turn up or demand turn down on the network, for a 3-hour period in a specific location, to ensure that the network remains within limits. The specific network needs are required for us to select the most suitable option to address this need.

(2

3

The team inform NESO of services we are dispatching.

The team assess the carbon impact of each of the FSPs in terms of CO²/MWh for the required duration. Carbon impact will form part of the weighting score of the FSP.

FSPs contract price



The team check that the FSPs have submitted bid data and use this to calculate the total cost for the service.

We will ensure the network operates within safe working limits

We will adhere to the security of supply requirements

We will operate the network in a fair and cost-effective manner

We will operate network sustainability

We will coordinate with the SO and other DSOs to ensure DER can operate in wider markets

The team assess if the FSPs add any unacceptable additional risk to the operation of the network. If this is the case that FSP is removed from the list of options.

The team check for Flexibility Service Providers (FSPs) that are available in the required location can provide the service. Where a FSP has declared unavailable they are no longer considered as part of the decision making.

The team assess if there are any specific technical requirements that need to be met for the service duration. If FSPs cannot provide support for the required duration they are removed from the list of options.

The team check the reliability of the FSPs based on historical performance data. Reliability will form part of the weighting score of the FSP.

Forecast data. Real time monitoring.

1

FSPs keep their Asset technical parameters up to date

FSPs performance data

Outcome



The Flexibility Scheduling Engineers applies the ODM principles by requesting availability across all FSPs in the required location. The requested availability is weighted based on reliability, cost and carbon impact. The FSPs are then scheduled. A similar process is then followed for issuing dispatch instructions, based on forecasted demand data at week ahead. Lastly, the Flexibility Scheduling Engineer will inform the NESO and neighbouring DSOs, if relevant, of the services we are dispatching.



PROCURING ADDITIONAL VOLUME

Confirm Flexibility Need

• We use updated forecasts to recalculate need.

Availability Instructions to Contracted Generation

• Where contracts already exist we use ODM process to issue Availability Instructions

Response to Availability Instructions

• FSPs accept or reject availability instructions

Calculate Remaining Need

• Flexibility Need – Accepted Availability Instructions

SAOU Requirement Published & Market Initiated

Utilisation Instruction



KEY RULES DRIVEN BY THIS PROCESS

- If you have a contract for a CMZ and decline an Availability Instruction, you cannot participate in the bidding for that zone.
- If you accept an Availability contract, you can bid into that zone with additional volume that you have this must be new volume.
- For the first short term markets all products are expected to be SAOU the acceptance of your bid is
 a commitment by you to make this volume available to us.
- The Pricing of bids must be economical because we're providing flexibility services on behalf of
 electricity customers therefore, unreasonably high bids may be rejected.

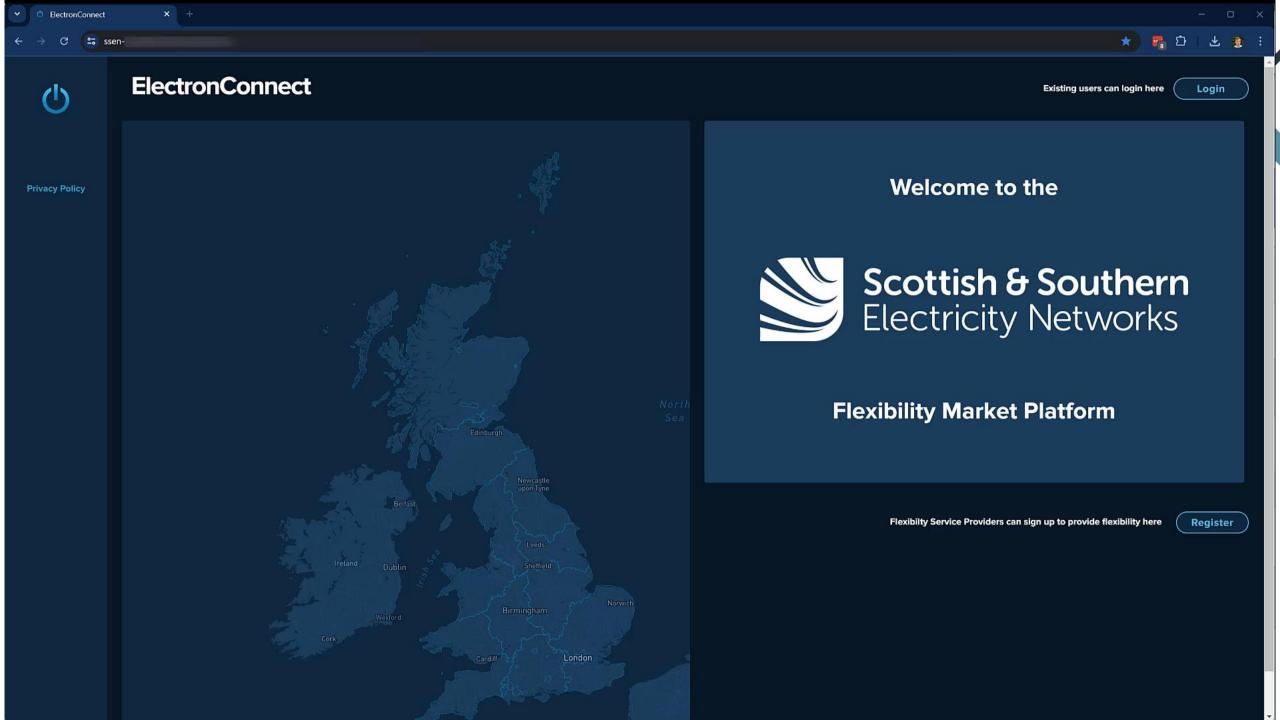


DISCUSSION POINT

WHAT WILL STOP YOU PARTICIPATING IN SHORT TERM MARKETS (IF ANYTHING)?









KEY DATES

	Key dates	<u>Deadline</u>
	Respond to questions in email dated 1 st July	15th July 2024
Overarching	May Mini-competition: Confirm acceptance of overarching agreement	15th July 2024
Agreement	May Mini-competition: Sign overarching agreement	29th July 2024
Long-term	Long-term Bidding window opens	w/c: 12th August 2024
bidding	Long-term Bidding window closes	w/c: 26th August 2024
	Respond to questions in email dated 1 st July	15 th July 2024
Short-term	Onboarded to Flexible Power	Latest: 19th August 2024
bidding	Asset Registration	Latest: 19th August 2024
	Short-term Bidding window opens	2 nd September 2024

SUMMARY OF DATES

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THANK YOU FOR JOINING US TODAY

ENA Webinar on:

Unlocking Power of DNOs smart meter consumption data

30th July

Summary - Unlocking the power of DNO Smart

Meter Consumption Data

Current and future use of the dataset (cvent.com)





You can contact our team by emailing: flexibilityprocurement@sse.com

