FLEXIBILITY SERVICES 18 APRIL 2023

Scottish & Southern

l'm fully electric

ssen



Nisha Doshi Flexibility Markets Manager



•••• AGENDA

WELCOME	PRESENTER	
Housekeeping and introduction	Nisha Doshi	
Why are we procuring Distributed Flexibility?	Nisha Doshi	
South 2023 Tender Overview		
Flexibility Service Overview	Emily Smith	
Flexibility Requirement	Emily Smith	
Dispatch	Simon Lewis	
Procurement Process and timelines	Sucan Povoridao	
Tender Assessment	Susan Beveridge	
Price ceilings		
Flexibility Service Standard Agreement	Elizabeth Porter	
Next Steps and Contacts		
THANK YOU AND CLOSE		

HOUSE KEEPING

Please help us to manage this meeting effectively



OUR NETWORKS AT A GLANCE

Our electricity distribution network delivers power to over 3.9 million homes and businesses across the diverse and unique geographies of the north of Scotland and central southern England.



Over 3.9 million homes and businesses served by our networks



More than 783,000 vulnerable customers identified on our priority services register



Over 4,000 employees across the country





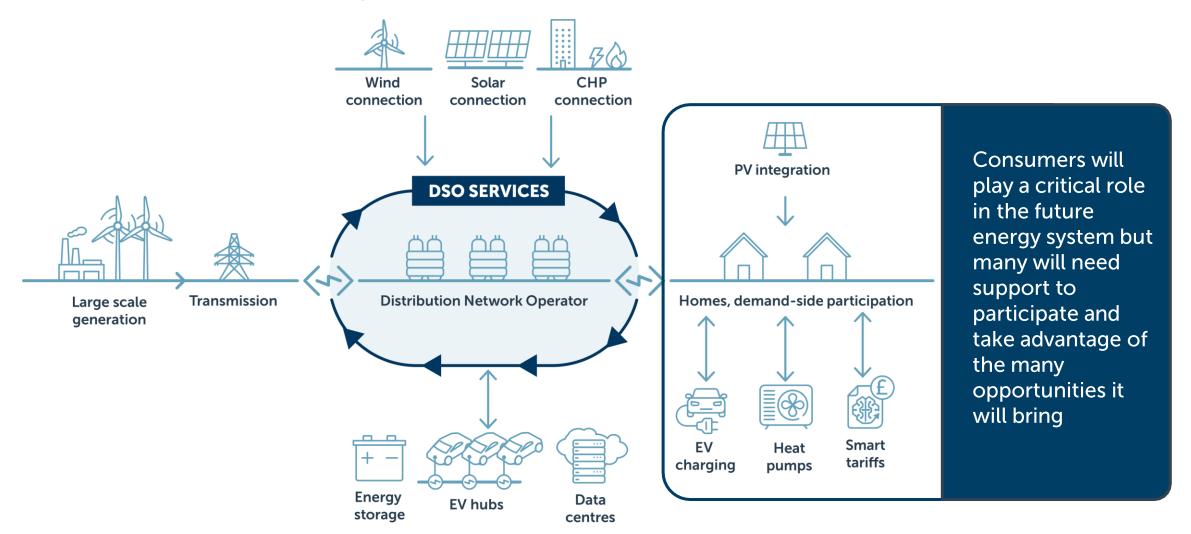


460km subsea cables powering island communities

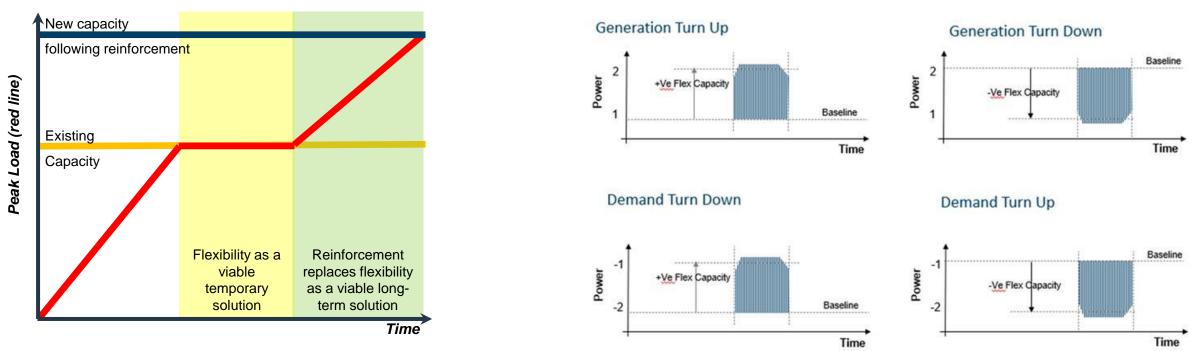


ELECTRICITY NETWORKS ARE THE KEY ENABLER OF NET ZERO

Networks enable local decarbonisation creating more flexible demand supplied by renewables and low carbon generation



•••• WHY DO WE NEED FLEXIBILITY?

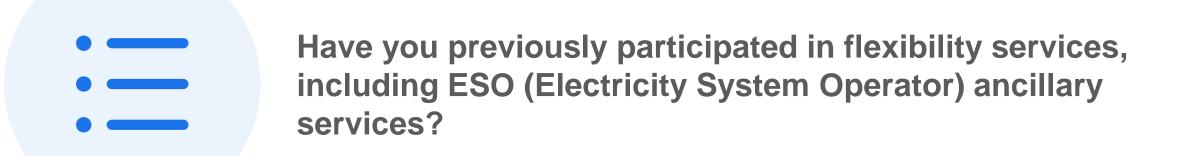


- Flexibility is procured in Constraint Managed Zones (CMZs)
- Providers must register on our procurement system
- The DSO tenders for a flexibility service by a request or bid
- Interested providers provide a response or offer

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- This is evaluated by the DSO who can accept or reject the response.
- If it is accepted a contract is awarded to the flexibility provider





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Where did you hear about today's webinar?

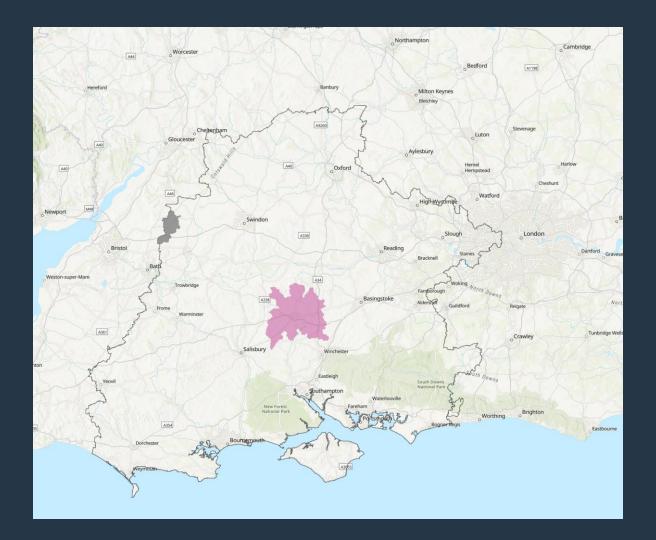
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SOUTH 2023 TENDER OVERVIEW

- In 2022 we carried out a tender for Secure flexibility services in 16 CMZs across SEPD.
- We accepted 74 MW of capacity from this tender and will look to start using and dispatching these services in 2023.

In May 2023 we are looking to procure Secure services in an existing CMZ (Alderton) and Dynamic and Restore services in a new CMZ (Andover).



Emily Smith Flexibility Market Analyst



•••• FLEXIBILITY SERVICES

Aligned with Open Networks standard definitions

	Pre-Fault	Post Fault/Planned Work
Utilisation Payments	Sustain Defer/avoid reinforcement by peak lopping at times of high forecast load under normal running conditions.	Restore Required to support restoration activities following an unplanned power outage.
Availability and Utilisation Payments	Secure Defer/avoid reinforcement by peak lopping at times of high forecast load under First Circuit Outage conditions.	Dynamic Support for network restoration in cases of secondary faults occurring during planned works. OR Alternative to network reconfiguration/mobile generators for planned works.

•••• FLEXIBILITY SERVICES

Descriptions and use cases

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Service	Description	Use Cases	Payments
Sustain	The provider agrees, ahead of time, to either deliver a change in export or import (or apply a limit), at specific times.	Network forecasts indicate risk of the network going beyond capacity in normal conditions.	Utilisation or Fixed Income
Secure	The provider agrees, ahead of time, their availability to deliver a change in export or import at certain times known as service windows. Based on refined forecasts closer to the event, SSEN Distribution may or may not instruct the use of the service.	Network forecasts indicate risk of the network going beyond capacity in N-1 fault conditions (i.e. where resilience is compromised)	Availability and Utilisation
Dynamic	 The provider agrees, ahead of time, their availability to deliver a change in export or import at certain times known as service windows. Depending on network conditions close to or during the service window, SSEN Distribution may or may not instruct the use of the service. 	Planned works which would normally involve the risk of power outage or the use of diesel generation. OR Network forecasts indicate risk of the network going beyond capacity in N-2 fault conditions. (i.e. situations where power outages are likely).	Availability and Utilisation
Restore	SSEN Distribution instructs a provider in real-time to either remain off supply, reconnect with lower demand, or to reconnect generation to support faster restoration.	Restoration following unplanned power outages.	Utilisation

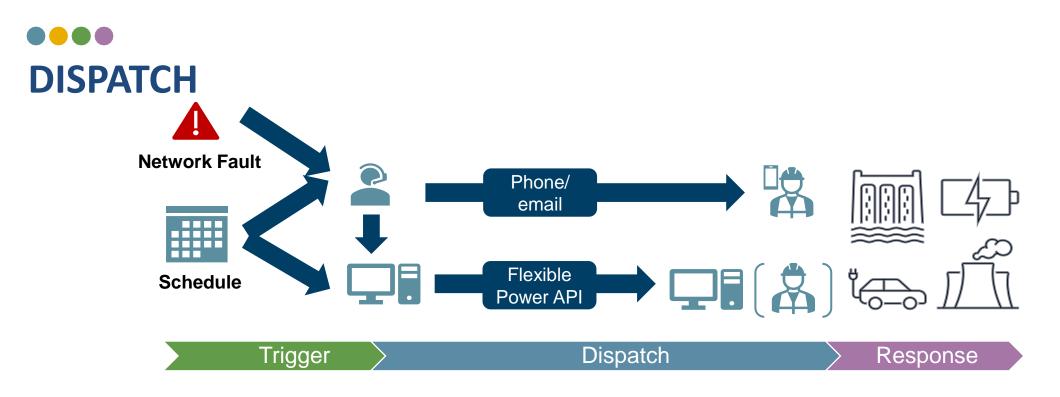
MAY 2023 SEPD FLEXIBLE REQUIREMENTS

Zone Name	Services	Minimum Provider Capacity (MW)	Max Connection Voltage (kV)	Type of Response (GTU/DTD or GTD/DTU)	Longest Availability Windows	Capacity Required (MW)	Total Forecast Utilisation MWh	Start Year	End Year ¹
Alderton	Secure	0.05	33	GTU/DTD	17:30-19:00, Spring/Autumn	0.2	4.6	2023	2024
Andover	Dynamic and Restore	0.05	33	GTU/DTD	-	15	-	2023	2024

- Zone map and tender dates:
 - <u>https://www.ssen.co.uk/our-services/flexible-solutions/flexibility-services/fle</u>
 - o <u>https://www.flexiblepower.co.uk/scottish-and-southern-electricity-networks</u>
- Service Tender dates
 - <u>https://www.preceden.com/timelines/523803-flexibility-in-gb-timeline</u>:

Simon Lewis Flexible Power Project Manager





- We dispatch services manually (via phone call and email) or automatically (via Flexible Power API).
- The method of dispatch is agreed after contracts are awarded.
- API integration is not mandatory but is advantageous, in particular for settlement (metering) data.

Service	Availability Request Lead Time / Period Covered	Utilisation Request Lead time / Period Covered
Sustain	Not Applicable	1 month / 1 season
Secure	5 weeks / 1 month	3 days / 1 week
Dynamic (pla nned works)	At least 5 days (usually longer) / variable	At least 15 mins / 1 day
Restore	Not Applicable	At least 1 min / 1 day

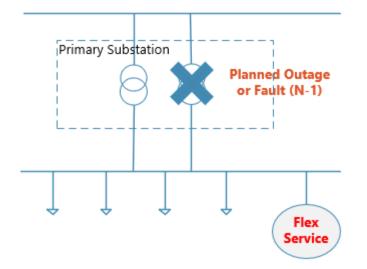


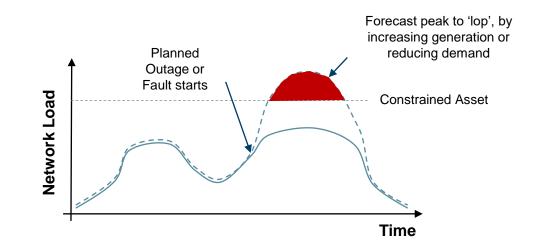
SECURE SERVICE

Used to defer need for network reinforcement by increasing generation or reducing demand at times of high forecast demand, and when network resilience is reduced.

- Availability requirements published month ahead*, based on worst case (zero distributed generation) network load forecast and assumed network status.
- Utilisation instructed week ahead, based on more realistic forecast.
- * If there is only one provider in a zone, availability may be requested from that provider a season or year ahead.

Impact of N-1 outage on network load:









On a scale of 1-5, how well do you understand the Flexibility services we are procuring?

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Susan Beveridge Junior Category Manager

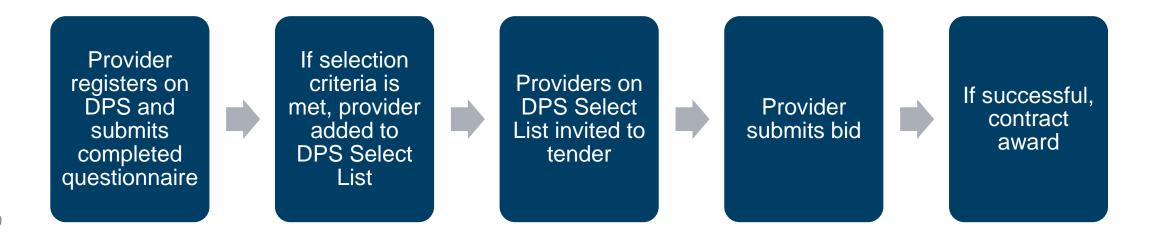


PROCUREMENT PROCESS

Pre-Qualification

- Prospective providers must register and pre-qualify on the Dynamic Purchasing System (DPS) in order to participate in tenders.
- Follow the link to the SEPD notice on our DPS platform to register and pre-qualify (South): <u>https://ssen.delta-esourcing.com/respond/4X98CZ76J8</u>

Please register and submit the DPS questionnaire by 30 April. It only takes 10 mins! Registration guidance can be found on our website: Flexibility Services Document Library – SSEN



PROCUREMENT TIMELINES



Requirements are published in multiple ways:

- Zone map and tender dates:
 - <u>https://www.ssen.co.uk/our-services/flexible-solutions/flexibility-services/flexibility-services-procurement/</u>
 - <u>https://www.flexiblepower.co.uk/scottish-</u> and-southern-electricity-networks
- Service Tender dates
 - <u>https://www.preceden.com/timelines/523803</u>
 <u>-flexibility-in-gb-timeline</u>:

•••• TENDER ASSESSMENT

As part of the tender evaluation process, quality and price:

Total Score by Item = (Price Score x Price Weighting) + (Quality Score x Quality Weighting)

- The price weighting applied to the last tender is: 70%
- The quality weighting applied to the last tender is: 30%

The quality score will include the following criteria:

- Service requirement
- Service management
- Health, Safety & Environment
- Technical operation
- Information Security
- Commercial viability

	Blended rate		
	Secure	Score	Secure
Potential Provider A	£190	80	57.89
Potential Provider B	£150	50	73.33
Potential Provider C	£110	70	100.00

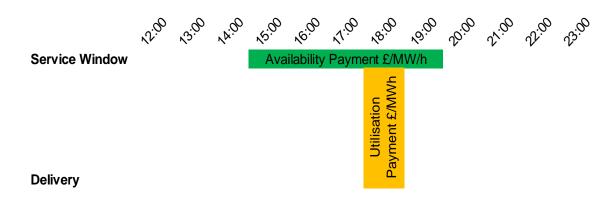
Elizabeth Porter Flexibility Markets Analyst





CEILING PRICES

- Ceiling Prices are used to ensure there is a financial benefit for Flexibility over alternative approaches where there is not enough market liquidity for price competition.
- The ceiling prices are based on the alternative cost of:
 - Network Reinforcement,
 - Use of diesel generations
 - Customer Outages
- Two potential payment terms: Availability and Utilisation



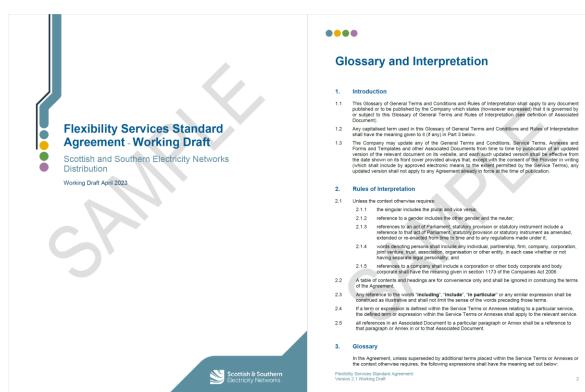
Service	Availability Fee (£/MW/hr)	Utilisation Fee (£/MWh)
Sustain	N/A	No ceiling to date
Secure	£150	£200
Dynamic	£30	£325
Restore	N/A	£400

SSEN Ceiling Prices for May 2023 Tender



FLEXIBILITY SERVICE STANDARD AGREEMENT

- We will using the updated ENA Standard Service Agreement 2.1 for the contracts agreed following the tender.
- Changes include provisions for Primacy rules
- Definition and amendments to clauses to take account of non-accessible sites
- There is a working draft of the updated agreement on our website (<u>Flexibility Services Document Library –</u> <u>SSEN</u>) and this will be updated for the May 2023 tender



•••• NEXT STEPS AND CONTACTS

- Interested Providers must register on the SEPD DPS and submit the pre-qualification questionnaire before 30th April 2023.
- 2. Invitation to Tender released to providers on the DPS Select List on **10th May 2023**. Information on the CMZ in the tender can be found here:
 - o <u>https://www.ssen.co.uk/our-services/flexible-solutions/flexibility-services/flexibility-services-procurement/</u>
 - o <u>https://www.flexiblepower.co.uk/scottish-and-southern-electricity-networks</u>
- 3. Participants submit bids from **10th May 2023** to **9th June 2023**
- 4. Evaluation and scoring responses June to July 2023.
- 5. Contract award July 2023.

For any questions regarding out procurement of Flexibility Services or the May 2023 tender please contact us at: <u>Flexibilityprocurement@sse.com</u>



How likely are you to participate in the tender?

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Is there any further information we can provide you?

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