

Serving the Midlands, South West and Wales

Flexible Power

Year in Numbers 2019

Summary

To enable a greater volume of demand, generation and storage to be connected, Western Power Distribution's networks are becoming smarter and more active. Creating a more efficient and flexible electricity system will benefit all customers and empower them to be at the centre of the energy revolution.



This report details how WPD has been actively using flexibility, contracted through third parties, to deliver solutions for our network throughout 2019.



To get involved with providing flexibility to WPD, please visit **www.flexiblepower.co.uk**

Coverage

2019 saw a significant increase in the areas where we were seeking to use flexibility on our network. During the 2nd procurement round of 2019 we offered flex providers the option of securing a longer term contract of up to 4 years rather than the 1 year contract. The result of this was that 50% of providers took up the longer term offer.



29

Significant reinforcement schemes assessed



3

Potential reinforcements deferred



122

Primary substations where flexbility sought

803,166

Customers served within flexibility locations



Product offerings to market:







System needs

Flexibility can help support our system, enabling us to deliver a safe, secure and economic service. As our usage of flexibility as a whole increases so too will the power and energy we require.

184MW

Peak power required

1,660MWh

Annual energy required

34,779 MWh

Annual availability required

Zones



7

Secure zones



10

Dynamic zones



Funding

100%

Funded through BAU activity



0%

Funded through innovation trials

Market response

297MW

Volume of interest from market

123MW-

(-1]

125

Flex Providers entering procurement



17

Contracts signed



Conventional reinforcement

72



Number of significant conventional reinforcement schemes completed

£44.8m



Total spend on conventional reinforcement

£26.4m



Value of deferred/avoided reinforcement in areas of successful flexibility

Flex Spend in 2019





Operational performance



638_{MWh} / 126_{MWh}

Availability offered / accepted



32016_{MWh} / 6578_{MWh}

Availability offered / accepted



74252_{MWh} / 74252_{MWh}

Availability offered / accepted



590 MWh
Total dispatched by WPD



543 MWh

Total delivered by Flex Providers



92% Average Flex Provider delivery



Earning potential

Secure areas



£ 300 per MWR

Dynamic areas



£300 per MWh

Restore areas



£600 per MWh

Flex Provider feedback



Flex Provider satisfaction



of existing
Flex Providers
would recommend
Flexible Power to
other organisations.



agree it is useful for their company.



agree it is useful for the wider energy system.

Flex Provider experience



Simple tendering process



Straightforward contracts and payment terms



Responsiveness of the Flexible Power team



Extra revenue stream that is stackable and compliments day to day business

Action on feedback

We held 8 stakeholder events over 2019 and published a public consultation to gather feedback from existing Flex Providers and wider market stakeholders. As a result we introduced changes to the Flexible Power offering which seek to lower barriers and maximise participation from wider market demographics.



Minimum run times reduced to one hour.



Minimum asset size removed.



Liabilities capped and mutual.



Flexible Power portal investment for increased asset operability.