#### Flexible Power – the first year in numbers



### **SUMMARY**

To enable a greater volume of demand, generation and storage to be connected, Western Power Distribution (WPD) 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.

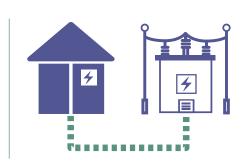


This report details how WPD has been actively using flexibility, contracted through third parties, to deliver solutions for our network throughout 2018. To get involved with providing flexibility to WPD, please visit www.flexiblepower.co.uk.

### **COVERAGE**

2018 was the first year for WPD to use flexibility as a business as usual activity. It saw a significant increase in the areas where we were seeking to use flexibility on our network.





76
Primary substations where flexibility sought



Customers served within flexibility locations

Product offerings to market:

**SECURE** 

**DYNAMIC** 

RESTORE

Pre-Fault

Post-fault

Outage restoration

## **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.





Secure zones

Dynamic zones



29,406мwн

Annual energy required



0%

Funded through innovation trials



100%

Funded through BAU activity

## **MARKET RESPONSE**



**261**<sub>MW</sub>

Volume of interest from market



28

MW contracted



87

Participants entering procurement



8

Contracts signed

# EARNING POTENTIAL

Secure areas:

£300 PER MWH

Dynamic areas:

 $\mathbf{£300}$ PER MWH

Restore areas:

£600PER MWH

## CONVENTIONAL REINFORCEMENT



Number of Significant conventional reinforcement schemes completed



£77.7<sub>M</sub>

Total spend on conventional reinforcement