

NEXT GENERATION NETWORKS

DNO/DSO Flexibility

The Energyst DSR event 2018



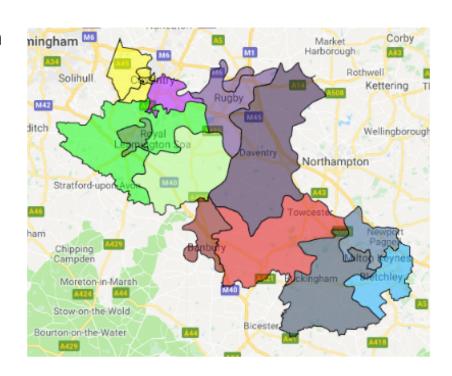
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Innovation & Low Carbon Networks Engineer



Project Entire

- Looked to recruit customers in 14 zones in the East Midlands
- Along the M1-M40 corridor
- Offered under Flexible Power Brand







Three Services

	Secure	Dynamic	Restore
Advance Payment	Arming	Availability	None
Utilisation	Medium	High	Premium
Customer declaration	Week Ahead	Week Ahead	Week Ahead
FP Accept / Reject	Week Ahead	Week Ahead	Automatic Accept
Dispatch Notice	Week Ahead	15 minutes	15 Minutes
Seasonal Requirement	All	Summer	All
Site Type	Half Hourly Metered	Half Hourly Metered	Half Hourly Metered
Generation	✓	✓	✓
Load Reduction	oad Reduction ✓		✓

- Secure and Dynamic are main services, Restore is additional
- Based on weekly process to enhance interactions with other services



Recruitment

- Initially ran EoI to asses viability of zones
- Simple process aimed at understanding what was available in zones
- Over 121MW of capacity responded across 69 sites

	Total	Compliant	Potential	Non-Compliant	Out of Zone
Sites	69	34	23	4	8
MW	121.47	41.46	17.95	41.0	21.06

- 12 zones taken forward to full procurement
- Full procurement still underway. Participants in various stages of on boarding



Signposting

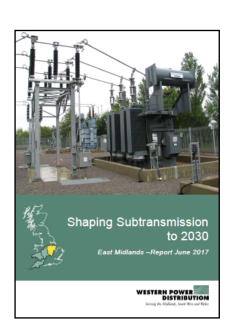
Uses WPD's Shaping Subtransmission Reports to identify future potential network constraints.

Signposting IS:

- A description of the system need to alleviate a potential network constraint.
- A description of the required behaviour of flexibility services in a network area (in a ESA).

Signposting IS NOT:

- An invitation to tender for the provision of flexibility services to WPD.
- A here and now requirement, or an exact description of system needs.
- The only or best solution to network constraints.





Flexibility map

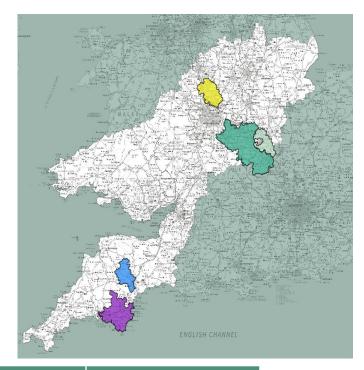
- Displays our signposting and forecasting information
- Data is downloadable
- www.flexibilitymap.westernpower. co.uk





BaU Flexibility

- Ran Eol in June-July for 18 new zones
- 16 zones taken forward to full procurement
- Full procurement still underway.
 Procurement ends 19/09/2018
- Feedback on processes and information being sought



	Total	Compliant	Potential	Non-Compliant	Out of Zone
Sites	87	67	6	6	8
MW	261.4	166.9	2.3	5.9	86.3



DSO forward plan

- Published in August
- Highlights latest thinking and way forward through the lens of customers
- Commitment to assess 90% of load related reinforcement spend against flexibility













Serving the Midlands, South West and Wales

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