

Shrewsbury GSP



DNOA Decision

Reinforce with Flexibility

Scheme description

Shrewsbury GSP is fed via one SGT, and is run in parallel via two 132 kV circuits with Ironbridge GSP which has three SGTs. For an N-2 of an arranged outage on the Shrewsbury SGT followed by an outage on one of the 132 kV circuits the demand of Shrewsbury GSP is picked up by the remaining 132 kV circuit which could potentially overload. The proposed reinforcement is to install a second SGT at Shrewsbury GSP and split the network between the two GSPs.



Constraint Season
Summer



Flexibility Product
Dynamic

Justification for decision

Insufficient flexibility has been procured to defer reinforcement so works are being progressed. Flexibility will continue to be procured to deal with the constraint in the interim and provide additional network security.

Constraint management timeline

2023 H2 Procurement

2023 H1 Procurement

EPRC: 2027

Estimated flex availability price (£) and volumes (MWh) per year :

	2023	2024	2025	2026	2027
BV	£ 15 / 534 MWh	£ 8 / 3310 MWh	£ 5 / 7431 MWh	£ 2 / 24461 MWh	£ 1 / 48749 MWh
CT	–	£ 9 / 2523 MWh	£ 7 / 5018 MWh	£ 3 / 14025 MWh	£ 2 / 33948 MWh
LTW	–	£ 5 / 7567 MWh	£ 2 / 21908 MWh	£ 1 / 65209 MWh	£ 1 / 120789 MWh
ST	–	£ 13 / 1107 MWh	£ 9 / 1860 MWh	£ 8 / 3612 MWh	£ 5 / 6435 MWh
SP	–	£ 14 / 463 MWh	£ 14 / 699 MWh	£ 10 / 1577 MWh	£ 8 / 3129 MWh

Estimated flex utilisation price (£) and volumes (MWh) per year:

	2023	2024	2025	2026	2027
BV	£ 885 / 173 MWh	£ 503 / 291 MWh	£ 316 / 426 MWh	£ 133 / 899 MWh	£ 84 / 1240 MWh
CT	–	£ 545 / 278 MWh	£ 398 / 353 MWh	£ 207 / 600 MWh	£ 105 / 1065 MWh
LTW	–	£ 325 / 409 MWh	£ 142 / 849 MWh	£ 70 / 1343 MWh	£ 39 / 2289 MWh
ST	–	£ 752 / 213 MWh	£ 555 / 283 MWh	£ 467 / 312 MWh	£ 329 / 419 MWh
SP	–	£ 810 / 165 MWh	£ 858 / 191 MWh	£ 602 / 262 MWh	£ 462 / 323 MWh



For more information visit: nationalgrid.co.uk/network-flexibility-map-application