

Sharnbrook



Constraint description

Sharnbrook primary is a single transformer site with a firm capacity limited by the 11 kV backfeeds to Harrold primary. Forecasts indicate this firm capacity will be exceeded in the near future.

Reinforcement description

The current reinforcement proposal is to install a second transformer at Sharnbrook and create a second 33 kV infeed (options for which are being studied).



Constraint Season
Winter/Summer



Flexibility Product
Dynamic



Outage Type
N-1

Justification for decision

Flexibility procurement is required to ensure the needs of the network are met.

Constraint management timeline

- 2024 H1 Procurement
- 2023 H2 Procurement
- 2023 H1 Procurement
- 2022 H2 Procurement

Time to Reinforce: 3 years

Constraint Type: Thermal

Estimated flexibility price (£) and volumes (MWh) per year under Best View:

| | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|--------------|------|------|--------------------|----------------|----------------|-----------------|
| Availability | - | - | £215 / 7 MWh | £109 / 145 MWh | £166 / 702 MWh | £80 / 1,531 MWh |
| Utilisation | - | - | £10,000 / 0.05 MWh | £6,541 / 4 MWh | £9,983 / 9 MWh | £4,800 / 17 MWh |



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