

Ilkeston

Constraint description

Ilkeston primary is fed via two transformers, which are currently limiting the firm capacity of the site. Under an N-1 condition (loss of one transformer) the load would be fully applied to the remaining transformer, potentially causing it to overload.

Reinforcement description

The current reinforcement proposal is to replace the two transformers and the 11 kV switchboard at Ilkeston.



Constraint Season
Winter and Summer



Outage Type
N-1



DNOA Decision
Flexibility

Justification for decision

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

Constraint management timeline

2024 H2 Procurement
2024 H1 Procurement
2023 H2 Procurement
2023 H1 Procurement
2022 H2 Procurement
2022 H1 Procurement
2021 H2 Procurement

Time to Reinforce: 3 years

Constraint Type: Demand

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

	2024	2025	2026	2027	2028	2029
Availability	-	-	-	£150 / MWh	£150 / MWh	£150 / MWh
	-	-	-	0.4 MWh	2 MWh	7 MWh
Utilisation	-	-	-	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh
	-	-	-	5 MWh	6 MWh	7 MWh



For more information see the **Stanton 33 kV NDP report**: <https://www.nationalgrid.co.uk/dso/network-development-plan>