

Toton



DNOA Decision

Reinforce with Flexibility

Constraint description

Toton primary has two transformers, so for an N-1 scenario, which loses one of the transformers, the full demand is supplied by the remaining transformer. This could potentially cause an overload on the second transformer.

Reinforcement description

The current reinforcement plan is to upgrade both transformers at Toton primary.



Constraint Season
Winter/Summer



Flexibility Product
Secure



Outage Type
N-1



Justification for decision

Reinforcement works are being progressed. Flexibility will be utilised as required to manage the constraint in the interim.

Constraint management timeline

2024 H1 Procurement

2023 H2 Procurement

2023 H1 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	£1,252 / 0.4 MWh	£1,252 / 2 MWh	£382 / 12 MWh	£110 / 40 MWh	£32 / 134 MWh	£20 / 218 MWh
Utilisation	£1,753 / 0.4 MWh	£1,753 / 2 MWh	£534 / 12 MWh	£155 / 40 MWh	£46 / 134 MWh	£27 / 218 MWh



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