

Nantwen



Constraint description

Nantwen primary is a single transformer primary. For an N-1 outage of the transformer, the site is limited by the 11 kV backfeeds.

Reinforcement description

The proposed reinforcement solution is to install a second primary transformer, add a 33 kV circuit breaker, and extend the 11 kV switchboard.



Constraint Season
Winter/Summer



Flexibility Product
Secure



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

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 / 0.2 MWh	£ 1,252 / 0.4 MWh	£ 1,252 / 0.5 MWh
Utilisation	-	-	-	£ 1,753 / 0.2 MWh	£ 1,753 / 0.4 MWh	£ 1,753 / 0.5 MWh



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