

Ravenhill



Constraint description

Ravenhill primary substation is supplied by a pair of mismatched 33/11 kV transformers. The loss of the higher rated transformer means the lower rated unit must supply the full demand.

Reinforcement description

The proposed reinforcement solution is to upgrade the existing lower rated transformer to match the higher rated one, and upgrade 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
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 / 0.3 MWh	£ 1,252 / 2 MWh	£ 1,252 / 9 MWh	£ 240 / 50 MWh
Utilisation	-	-	£ 1,753 / 0.3 MWh	£ 1,753 / 2 MWh	£ 1,753 / 9 MWh	£ 336 / 50 MWh



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