

Simplex Primary



Constraint description

An outage of either of the two 33/11 kV transformers at Simplex primary substation is forecasted to cause an overload of the other transformer at Simplex Primary substation.

Reinforcement description

Replace the 33/11 kV transformers at Simplex primary substation with 20/40 MVA units and replace the 1200 A 11 kV board with a 2000 A 11 kV board.



Constraint Season
Winter and Summer



Outage Type
N-1

Justification for decision

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

Constraint management timeline

2024 H2 Procurement

Time to Reinforce: 2 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	£44 / MWh	£15 / MWh
	-	-	-	46 MWh	121 MWh	314 MWh
Utilisation	-	-	-	£9,000 / MWh	£2,656 / MWh	£923 / MWh
	-	-	-	3 MWh	16 MWh	45 MWh



For more information see the **Cellarhead GSP Network NDP report**: <https://www.nationalgrid.co.uk/dso/network-development-plan>