

Staythorpe GSP



DNOA Decision

Reinforce with Flexibility

Constraint description

Staythorpe Grid Supply Point (GSP) has two Super Grid Transformers (SGTs), each rated at 240 MVA. The group demand is approaching this rating and is projected to exceed it in the near future. At this point there will be an N-1 constraint at Staythorpe GSP (loss of one of the SGTs).

Reinforcement description

The proposed solution is to install an additional SGT at Staythorpe.



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: 5 years

Constraint Type: Thermal

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

	2024	2025	2026	2027	2028	2029
Availability	-	£ 1,252 / 19 MWh	£ 140 / 1,024 MWh	£ 15 / 9,535 MWh	£ 3 / 40,376 MWh	£ 1.67 / 86,012 MWh
Utilisation	-	£ 1,753 / 19 MWh	£ 196 / 1,024 MWh	£ 20 / 9,535 MWh	£ 4 / 40,376 MWh	£ 2.33 / 86,012 MWh



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