

Swansea North / Upper Boat



Constraint description

Under first circuit outage conditions both the Hirwaun and Travellers Rest Bulk Supply Point (BSP) substations may need to be transferred from the Swansea North Grid Supply Point (GSP) group to the Upper Boat GSP group. This can increase the group load fed by the Y, YE & D dual circuit tower line. If a subsequent 132 kV fault is suffered, then the thermal rating of the remaining 132 kV circuit is exceeded.

Reinforcement description

The proposed reinforcement solution is to re-conductor the Y, YE & D dual circuit tower line sections to increase the winter firm capacity.



Constraint Season
Winter/Summer



Flexibility Product
Dynamic



Outage Type
N-2

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	£ 33 / 817 MWh	£ 35 / 1,087 MWh	£ 45 / 1,603 MWh	£ 49 / 3,488 MWh	£ 33 / 5,550 MWh	£ 26 / 8,320 MWh
Utilisation	£ 1,960 / 112 MWh	£ 2,099 / 138 MWh	£ 2,718 / 151 MWh	£ 2,930 / 170 MWh	£ 1,951 / 250 MWh	£ 1,558 / 288 MWh



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