

Lime Street and Garngoch group



Constraint description

A 33 kV fault to Main Busbar 2 at Garngoch can result in both Garngoch and Lime Street being supplied entirely by a single 33 kV circuit from Swansea North.

Reinforcement description

The reinforcement solution is to install a second 33/11 kV transformer at Lime Street and install a 6.5 km 33 kV circuit to Swansea North BSP.



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: 3 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	£150 / MWh	£150 / MWh	£150 / MWh	£74 / MWh
	-	6 MWh	45 MWh	72 MWh	199 MWh	377 MWh
Utilisation	-	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh	£4,449 / MWh
	-	0.2 MWh	2 MWh	2 MWh	5 MWh	13 MWh



For more information see the **Swansea North BSP NDP report**: <https://www.nationalgrid.co.uk/dso/network-development-plan>