

Gunnislake



DNOA Decision

Reinforce with Flexibility

Constraint description

Gunnislake primary is primary substation with two 5 MVA transformers. These transformers do not have cyclic rating capabilities and as such are limited to the sustained rating of 5 MVA for all seasons. An N-1 condition for the loss of one of the 33/11 kV transformers at Gunnislake primary would overload the remaining transformer at peak loading.

Reinforcement description

Uprate both transformers to 7.5/15 MVA units.



Constraint Season
Winter and Summer



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 H2 Procurement
- 2024 H1 Procurement
- 2023 H2 Procurement
- 2023 H1 Procurement
- 2022 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	£150 / MWh	£150 / MWh
	0.4 MWh	1 MWh	1 MWh	1 MWh	1 MWh	1 MWh
Utilisation	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh	£9,000 / MWh
	0.06 MWh	0.1 MWh	0.1 MWh	0.1 MWh	0.1 MWh	0.1 MWh



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