

Penblewin Primary

 DNOA Decision
Signposting

Constraint description

For a first circuit outage (arranged or fault) which results in the loss of either Penblewin 33/11 kV primary Transformer (T1 or T2) the remaining transformer in service begins to overload in-line with the load growth projections. Future years will also lead to the 33 kV circuit supplying the primary to overload under intact network conditions.

Reinforcement description

Replacing the two transformers with 12/24 MVA units would resolve this constraint if carried out alongside 33 kV circuit works to free up capacity.



Constraint Season
Winter and Summer



Outage Type
N-1

Justification for decision

No flexibility requirement under Best View until 2033.

Constraint management timeline

2024 H2 Signposting

Time to Reinforce: 3 years

Constraint Type: Demand

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

2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
-	-	-	-	-	-	-	-	-	1 MWh	7 MWh



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