

Aberaeron



DNOA Decision

Reinforce with Flexibility

Constraint description

Aberaeron is a single transformer site. For an N-1 outage of the transformer, the site is limited by the 11 kV backfeeds.

Reinforcement description

There are two reinforcement options under consideration:

- (1) Install a 3 MVAR capacitor bank to the 11 kV network to resolve the voltage issues when the single 33/11 kV transformer is out of service.
- (2) Install a new 33 kV circuit from Llanfihangel Ystrad to Aberaeron and establish second 33/11 kV transformer.



Constraint Season
Winter/Summer



Flexibility Product
Dynamic



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
 2022 H2 Procurement
 2022 H1 Procurement
 2021 H2 Procurement

Time to Reinforce: 3 years

Constraint Type: Security of supply

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

	2024	2025	2026	2027	2028	2029
Availability	-	£ 18 / 2 MWh	£ 20 / 6 MWh	£ 38 / 15 MWh	£ 45 / 29 MWh	£ 51 / 64 MWh
Utilisation	-	£ 1,095 / 0.4 MWh	£ 1,187 / 1 MWh	£ 2,286 / 2 MWh	£ 2,674 / 3 MWh	£ 3,050 / 5 MWh



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