

Alderton Primary



DNOA Decision

Reinforce with Flexibility

Constraint description

T1 overloads for any outage of T2 at Alderton Primary substation.
T2 overloads for any outage of T1 at Alderton Primary substation.

Reinforcement description

Replace the two transformers at Alderton Primary substation with 20/40 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

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	£16 / MWh 2,173 MWh	£15 / MWh 2,247 MWh	£16 / MWh 2,198 MWh	£9 / MWh 2,964 MWh	£8 / MWh 3,458 MWh	£5 / MWh 5,105 MWh
Utilisation	£960 / MWh 29 MWh	£902 / MWh 32 MWh	£940 / MWh 30 MWh	£559 / MWh 60 MWh	£470 / MWh 72 MWh	£286 / MWh 127 MWh



For more information see the **Port Ham (Walham) GSP Network NDP report**: <https://www.nationalgrid.co.uk/dso/network-development-plan>