

Langrick Primary



DNOA Decision

Reinforce with Flexibility

Constraint description

Langrick primary has a single transformer which limits its firm capacity under intact running conditions. Under N-1 outage conditions the site also relies on 11 kV backfeeds to maintain supply.

Reinforcement description

Replacing the primary transformer at Langrick with a 12/24 MVA unit would resolve this constraint, and a second 12/24 MVA transformer could then be installed at a later date to add further capacity.



Constraint Season
Winter and Summer



Outage Type
Intact

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 25 MWh	£150 / MWh 25 MWh	£150 / MWh 25 MWh	£150 / MWh 21 MWh	£147 / MWh 33 MWh	£87 / MWh 60 MWh
Utilisation	£9,000 / MWh 2 MWh	£9,000 / MWh 2 MWh	£9,000 / MWh 2 MWh	£9,000 / MWh 1 MWh	£8,827 / MWh 2 MWh	£5,191 / MWh 4 MWh



For more information see the **Boston 33 kV NDP report:** <https://www.nationalgrid.co.uk/dso/network-development-plan>