Alfreton-Wessington

DNOA Decision
Reinforce with Flexibility

Constraint description
Alfreton Bulk Supply Point supplies Wessington, Ambergate and Ravensdale Park primaries through a pair of 33 kV circuits. Due to high demand and generation growth, the circuits are expected to have thermal and voltage constraints.

Reinforcement description
In order to resolve this constraint, alongside constraints at Ambergate, the proposed reinforcement is to install two new 33 kV circuit from Alfreton towards Ambergate primary, which will remove Wessington from the group and facilitate the future expansion of Wessington primary.

Constraint Season
Winter and Summer

Outage Type
N-1

Justification for decision
Additional constraints have been identified in the area, some of which are not suitable for flexibility. Flexibility can still support in the short term.

Constraint management timeline
2024 H2 **Procurement**
2024 H1 Procurement

Time to Reinforce: 2 years

Constraint Type: Demand

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

	2024	2025	2026	2027	2028	2029
Availability	£28 / MWh	£33 / MWh	£20 / MWh	£13 / MWh	£9 / MWh	£6 / MWh
	1,027 MWh	849 MWh	1,492 MWh	2,158 MWh	3,424 MWh	4,430 MWh
Utilisation	£1,657 / MWh	£1,973 / MWh	£1,183 / MWh	£773 / MWh	£514 / MWh	£359 / MWh
	70 MWh	59 MWh	97 MWh	151 MWh	224 MWh	328 MWh

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