Newton Abbot to Newton Abbot Main

DNOA Decision
Reinforce with Flexibility

Constraint description
Newton Abbot Main is a three transformer primary and constrained by winter circuit ratings and summer transformer ratings. An N-1 condition on the 33 kV busbar at Newton Abbot BSP will result in the loss of two out of three of the 33/11 kV transformers/ 33 kV circuits resulting in an overload on the remaining transformer/circuit at peak loading.

Reinforcement description
Reconfiguring the 33 kV busbar running arrangement to prevent the loss of two transformers for an N-1 outage condition. Alternatively install an additional 33/11 kV transformer.

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
2023 H2 Procurement
2023 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	£150 / MWh	£115 / MWh	£39 / MWh	£37 / MWh	£34 / MWh	£33 / MWh
	1 MWh	3 MWh	35 MWh	38 MWh	43 MWh	43 MWh
Utilisation	£9,000 / MWh	£6,873 / MWh	£2,324 / MWh	£2,208 / MWh	£2,020 / MWh	£2,008 / MWh
	1 MWh	1 MWh	3 MWh	3 MWh	4 MWh	4 MWh

For more information see the **Newton Abbot BSP NDP report**: https://www.nationalgrid.co.uk/dso/network-development-plan