

Mackworth


DNOA Decision
Reinforce with Flexibility

Scheme description

The transformers at Mackworth primary are not fitted with automatic on-load tap changers, meaning that the site firm capacity is restricted in order to maintain the 11 kV voltage within statutory limits. The reinforcement solution is to upgrade the transformers and replace the 11-panel switchboard to prevent a constraint for the FCO loss of a transformer.



Constraint Season
Winter



Flexibility Product
Secure

Justification for decision

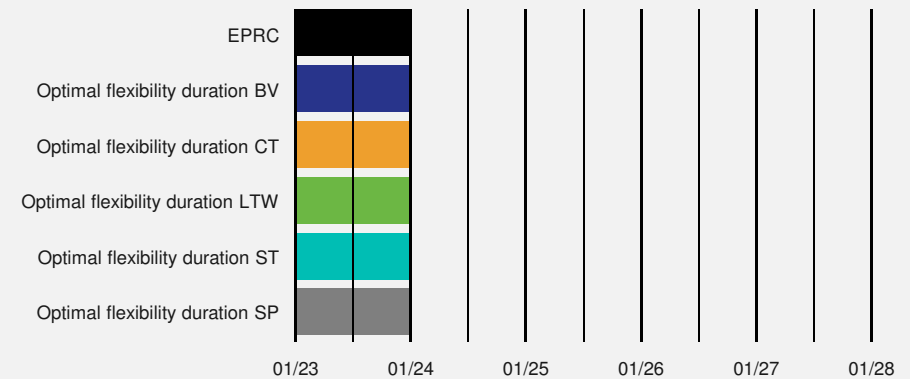
Reinforcement scheduled to be completed in 2023. Current flexibility contracts are being kept active to deal with the constraint in the interim and provide additional network security.

Constraint management timeline

- 2023 H1** Maintain Active
- 2022 H2** Procurement
- 2022 H1** Procurement
- 2021 H2** Procurement
- 2021 H1** Procurement

Estimated flex utilisation required per year (MWh):

| | 2023 | 2024 | 2025 | 2026 | 2027 |
|------------|-------|------|------|------|------|
| BV | 57.33 | | | | |
| CT | – | | | | |
| LTW | – | | | | |
| ST | – | | | | |
| SP | – | | | | |



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