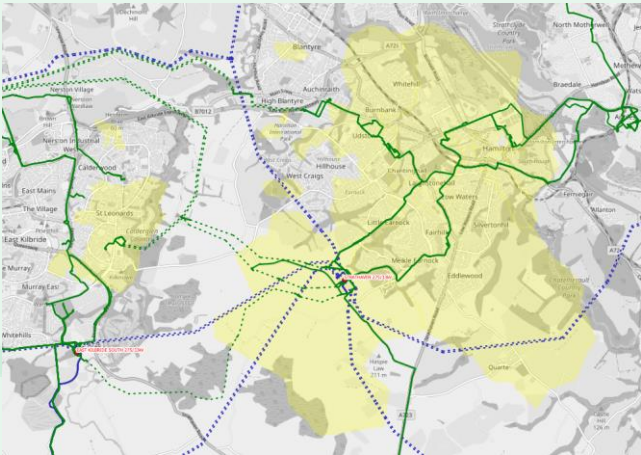


Strathaven GSP Fault Level Mitigation

Reinforce without flexibility



The Strathaven demand groups supply ca. 34,000 customers and is geographically located in the Lanarkshire region of SP Distribution (SPD) licence area. The GSP supplies five 11kV primary substations; Burnbank, Hamilton, Leonards Chapel, Neilsland and Strathaven

Constraint

FAULT LEVEL
The peak make and RMS Break fault level at the Strathaven GSP 33kV switchboard exceeds the network design limit. During RIIO-T2 preparation we worked collaboratively with SP Transmission to undertake a whole system approach to identify the most economic and efficient solution. It was identified that a reduction in fault levels to a value less than the network design rating can only be achieved with transmission works.

Decision

Reinforce without flexibility
SPT will replace the 120MVA SGT1 transformer with a 90MVA 275/33kV unit. The new higher impedance transformer, when in parallel with SGT2 will lower the fault infeed from the transmission system to a value less than the system design limit.

Justification for decision

Due to the predicted increase in fault levels, operational management is not an enduring solution. Flexibility would not relieve fault level constraints.

Flexibility product

N/A

Constraint season(s)

Year round

Guide price

Competition closed

Reinforcement timescale

Complete



Flexibility Tendering **Closed**

We are not currently tendering for flexibility services at this location.

Technical Appraisal

More detailed technical information on the nature of the constraint, network impacts, solutions considered and selected intervention are available in this scheme’s [Engineering Justification Paper](#)

To ensure that our plans and publications cover the needs of our stakeholders, customers, and the communities we serve, we welcome ongoing feedback.

Feedback can be emailed to: systemdesignsteam@spenergynetworks.co.uk

Flexibility position at March 2024	2023/24	2024/25	2025/26	2026/27	2027/28
Risk duration (hrs)					
Flexibility required (MW)					
Flexibility procured (MW)					
Flexible MW capacity met (%)					