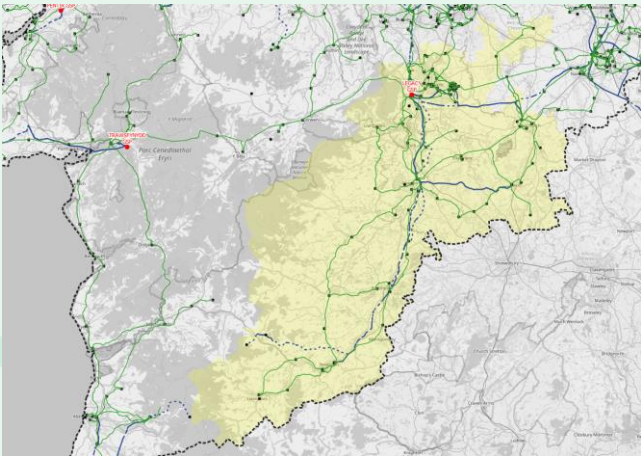


Legacy 132kV reinforcement

Reinforce



Legacy 400/132kV GSP is a key site in the SP Manweb (SPMW) Distribution network supporting a major part of North Wales and feeding into Mid Wales and North Shropshire, supplying to ca. 145,000 customers in total. Legacy Grid Supply Point (GSP) is fed by 4 x 400/132kV supergrid transformers (SGTs) from National Grid Electricity Transmission, all rated at 240MVA.

Constraint

SECURITY OF SUPPLY

This 132kV network group has experienced high levels of generation connections activity and has significant penetration of embedded generation with ca. 400MW of connected generation and up to an additional 220MW expected to connect within the RIIO-ED2 price control period. Given the importance of the group it must be secured against second circuit outage in accordance with EREC P2/7. In the current configuration, loss of two SGTs on the same side of the busbar carry an inherent risk that the corresponding 132kV busbars will lose the supply completely.

Decision

Reinforce

Swap SGT2 and SGT4 tails across the 132kV busbars to provide additional security to the group in the event of outages on the Transmission network and add a new bus-section circuit breaker to enable improved coupling with the adjacent Connah's Quay GSP, increasing operational flexibility.

Justification for decision

Failing to intervene would perpetuate the risk of losing the whole in the event of a busbar fault.

Flexibility product

N/A

Constraint season(s)

Year round

Flexibility guide price

N/A

Reinforcement timescale

2025/26



Flexibility
not required

Flexibility Tendering

Closed

Flexibility would not remove risk of loss of supply.

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: systemdesignteam@spenergynetworks.co.uk

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