

Yair Bridge 22kV Upgrade

Reinforce, supported by flexibility



The Yair Bridge/Innerleithan demand group supplies ca. 2,500 customers and is geographically located in the Edinburgh & Borders region of SP Distribution (SPD) licence area. It is fed from Galashiels and Kaimes Grid Supply Points (GSPs). The network under consideration is the distribution network between Yair Bridge and Kingsland. It is a non-standard network made up of four voltages: 33kV & 22 kV (EHV) and 11kV & 6.6kV (HV).

THERMAL, ASSET RISK AND MODERNISATION

Kingsland Primary is currently at thermal limits and load is forecast to increase further during RIIO-ED2 due to uptake of Low Carbon Technologies (LCTs), forecasting non-compliance of EREC P2/8. Innerleithan and Walkerburn Primaries are also at single circuit risk with a Normally Open Point (NOP) across a potential grid parallel.

The non-standard voltage limits network capacity and increases incremental cost for plant installation and replacements, as well as increasing risk for fault repairs and availability of spares. Aging legacy assets and civils require remedial works. The civils are of particular concern due to substantial flooding issues

Constraint

Decision

Reinforce supported by flexibility

Install second EHV circuit to Innerleithan Primary to offload Kingland Primary and resolve single circuit risk. Remove Walkerburn Primary and transfer customer to Innerleithan network to increase security of supply and resolve asset risk and modernisation.

Justification for decision

Insufficient flexibility to defer reinforcement and remain EREC P2/8 compliant so works are being progressed. Flexibility will support management of the constraint in the interim.

Flexibility product

SCHEDULED UTILISATION

Constraint season(s)

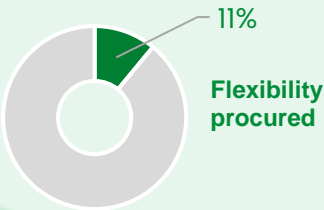
Winter

Guide price

Availability fee up to **£285/MW/hr**
Utilisation fee up to **£350/MWh**

Reinforcement timescale

2025/26



Flexibility position at March 2024	2023/24	2024/25	2025/26	2026/27	2027/28
Risk duration (hrs)	4.0	6.0	11.0	17.0	24.5
Flexibility required (MW)	1.7	1.9	2.1	2.4	2.6
Flexibility procured (MW)	0.0	0.0	0.0	0.3	0.9
Flexible MW capacity met (%)	0%	0%	0%	12%	36%

Flexibility Tendering

Open

We are tendering for flexibility services at this location.

More information is available on the [PICLO Flex website](#)

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