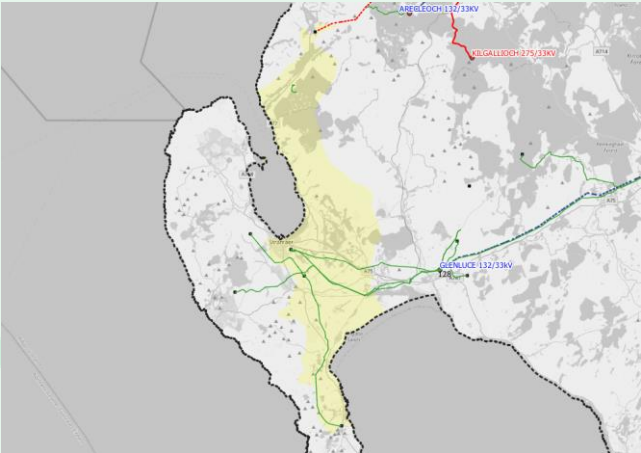


# Stranraer Primary Reinforcement

## Manage with flexibility



The Stranraer demand group supplies ca. 6,000 customers and is geographically located in the Dumfries and Galloway region of SP Distribution (SPD) licence area. It is supplied by Glenluce Grid Supply Point (GSP), via two long 33kV overhead line (OHL) circuits (14 and 15.5km).

Constraint

**VOLTAGE**  
The demand group is presently operating close to voltage limits. Studies indicate that additional demand growth and LCT uptake will lead to steady state undervoltage (<0.94 pu) and voltage step issues (> -10%) beyond operational management. Therefore, in order to maintain voltages within statutory limits it was proposed to carry out system reinforcement in the RIIO-ED2 price control period.

Decision

**Manage with flexibility**  
Defer innovative STATCOM reinforcement by managing the voltage constraints through the RIIO-ED2 period by using flexibility services.

Justification for decision

Demand levels have not increased as forecast in the area; therefore, it is currently proposed to manage with flexibility. Exceedance of voltage limits without flexibility is currently expected in 2029/30.

Flexibility product

**SCHEDULED UTILISATION**

Constraint season(s)

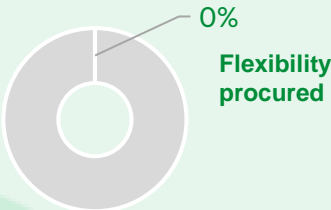
**Winter**

Guide price

Availability fee up to **£410/MW/hr**  
Utilisation fee up to **£500/MWh**

Reinforcement timescale

Deferred until RIIO-ED3 using flexibility.



Flexibility position at March 2024	2023/24	2024/25	2025/26	2026/27	2027/28
Risk duration (hrs)	0.5	0.5	0.5	0.5	0.5
Flexibility required (MW)	0.9	1.0	1.1	1.3	1.5
Flexibility procured (MW)	0.0	0.0	0.0	0.0	0.0
Flexible MW capacity met (%)	0%	0%	0%	0%	0%

## 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](mailto:systemdesignteam@spenergynetworks.co.uk)