

# Leven Primary Fault Level Mitigation

## Manage with RTFLM



The Leven demand groups supply ca. 1,700 customers and is geographically located in the Central & Fife region of SP Distribution (SPD) licence area. It is fed from Leven Grid Supply Point (GSP).

Constraint

**FAULT LEVEL**  
Both the 11kV peak make and RMS break duty fault level exceeded the design rating at around 110%. The main reason for the high fault level was due to the best view of connected generation at Leven Primary. The 11kV primary switchgear is rated at 350MVA and independent design limits (IDL) of 20kA RMS break duty was in place, with an operational measure to mitigate the fault level issue by keeping the 33/11kV transformer T2 on open standby.

Decision

**Install innovative Real Time Fault Level Management (RTFLM)**  
Following a thorough review of connected generation by Central & Fife District and subsequent remodelling, the peak fault levels are currently approx. 96% of rating. It is proposed to monitor with RTFLM to validate the fault levels, subject to connections activity in RIIO-ED2.

Justification for decision

The remodelling exercise reduced the prospective fault levels below design rating limits. Fault levels can be validated once RTFLM is installed. Flexibility would not relieve fault level constraints.

Flexibility product

N/A

Constraint season(s)

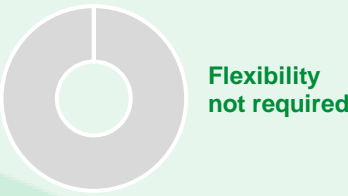
Year round

Guide price

Competition closed

Reinforcement timescale

Deferred to RIIO-ED3.



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: [systemdesignteam@spenergynetworks.co.uk](mailto:systemdesignteam@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 (%)					