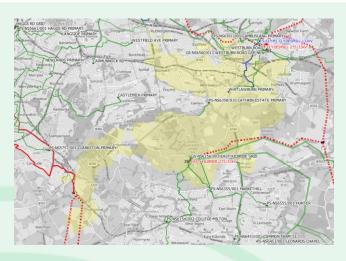
Whitlawburn Primary Fault Level Mitigation



Flexibility

Tendering

Reinforce without flexibility



The Whitlawburn demand groups supply ca. 14,000 customers and is geographically located in the Glagow region of SP Distribution (SPD) licence area.

Constraint	FAULT LEVELThe 11kV peak make fault level exceeds the equipment rating and the RMSbreak duty is at 95%. Although, there is one landfill generation site thatcontributes to the fault level issue, the main reason for the high fault levelis attributed to the impedance on rating (31.1%) of the 33/11kV, 20/40MVAtransformers and the configuration of the 33kV network.		•	
Constraint			We are not currently tendering for flexibility services at this location	
Decision	Reinforce without flexibility Establish a new Cathkin primary substation with two 20MVA 33/11kV transformers and a 9-panel 11kV switchboard, located on ground occupied			
	by the former Cathkin substation own substation is established and the der transformers is reduced, the Whitlaw renewed, replacing the 20/40MVA u transformers.	Technical Appraisal		
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.		More detailed technical informat on the nature of the constraint network impacts, solutions considered and selected interven	
Flexibility product	N/A		are available in this scheme's Engineering Justification Pape	
Constraint season(s)	Yearround	Flexibility		
Guide price	Competition closed	not required		
Reinforcement timescale	2027/28		To ensure that our plans and publicat cover the needs of our stakeholder	

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 (%)					

Closed

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ations 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

Last updated: 26/04/24