

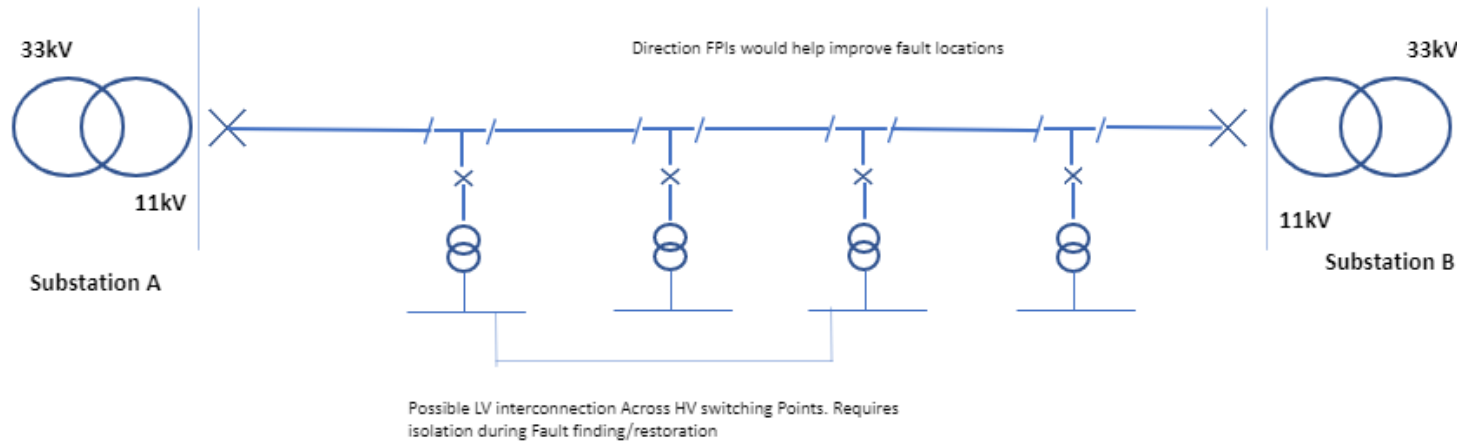
Can we minimise cable-fault supply interruptions?

EIP019

28 February 2023

Background

- SPM network design historically involved a unit protected system at 11kV (X-Type).
- Ongoing complexities and costs associated with the X-Type network have led many circuits to be converted into traditional Y-type arrangements under modernisation.



- During an HV fault, traditional fault finding and restoration techniques cannot be utilised due to the risk of back feeding a HV fault via the LV network.
- Alternative fault finding techniques are time consuming and difficult.
- Seeking solutions to:
 - Aid in fault location/restoration
 - Segregate the LV meshed network during HV fault

Enablers and Constraints

Enablers

- New Secondary RTU with enhanced IO and Modern Telecoms

Constraints

- Limited LV Smart Devices to Isolate interconnection
- Fault Finding Techniques (not requiring a VICTOR).

Involvement and Implementation

- Key Stakeholders include:
 - DNO's
 - Fault Engineers
 - Customers
- Target Market – Interconnected network operators, DNO's
- Rollout within ED-2

Energy Innovation Basecamp

28 February 2023
ICC Birmingham

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