Microresilience - an innovation trial

[Diagram showing HV network, LV network, and the MicroResilience Device]
Project Overview

- The project solution enables transition of the local LV network into an islanded grid, maintaining supply to customers in the community either as restoration works are completed, or as NPg arranges mobile/temporary power supply for the duration of the grid outage.
This project is a technology demonstrator that will...
Site 1 - Byrness

Rural location in North Northumberland

Supplied from primary substation 35 miles away in Hexham

Enhanced risk of outages
Site 2 - Low Thornley

Location of the NGN Hydrogen Home

Opportunity to understand the impact of the Hydrogen mix on the power network
How we plan to do it

- Communications
- Microgrid controller
- Power Electronics Device
- Battery Energy Storage
Communications protocols under consideration
Currently in design and testing phase

1. Grid-to-island (unplanned)

2. Grid-to-island (planned)

3. Island-to-grid
Next steps

- Design and testing (ongoing)
- Deployment in Q4 (site 1)
- Runtime 2024 and beyond
Questions & Answers

For further information please contact me:

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