Energy Networks Innovation Process

Annual Project Progress Report Document

Date of Submission: 26/07/2023

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Notes on Completion: Please refer to the NIA Governance Document to assist in the completion of this form. Please use the default font (Calibri font size 10) in your submission. Please ensure all content is contained within the boundaries of the text areas.

Project Title (*This cannot be changed once registered*)	Project Reference
Portable – Low Voltage Fault Passage Indicators (Portable – LV FPI)	NIA_SSEN_0060
Funding Licensee(s)	**Project Start Date**
Scottish and Southern Electricity Networks Distribution	May 2022
Project Duration	**Year**
15 months	2023
Nominated Project Contact(s)	
Tim Sammon, Innovation Programme Delivery Manager at SSEN Fnp.pmo@sse.com	

1. Scope

To assess how fault passage indicator technology performs when managing faults on the LV Network. The project will consist of 3 Phases

• Phase 1 - (3 Months) – Development of suitable commercial solution from the previous proof of concept works completed in a
previous NIA Project (Low Voltage – Underground Fault Location Technologies). Design process in preparation for field trials on DNO
LV network.

• Phase 2 – (6 -9 Months) – Field trials using portable fault passage indicator technology on sustained LV faults.

• Phase 3 – (3 Months) Project evaluation that could lead to business as usual. Dissemination of project to other network licensees
and interested parties.

2. Objective(s)

By the end of the project

• To have developed commercially viable portable fault passage indicators for use in conjunction with existing proven low voltage fault location technologies.

• To have developed business as usual processes for their use to efficiently locate low voltage faults in electricity distribution networks.

• To have disseminated the learnings from the project through annual or targeted events for the benefit of GB customers.

3. Success Criteria

This project will be deemed a success if all planned activities are completed, enabling the complete evaluation of whether portable fault passage indicator devices are suitable complementary devices for quick underground low voltage fault location.

4. Performance compared to the original project aims, objectives and success criteria

Details of how the Project is investigating/solving the issue described in the NIA Project Registration Pro-forma. Details of how the Project is performing/performed relative to its aims, objectives and success criteria.

The project is currently still in phase 1 – Factory Development.. There has been delays in purchasing components, this is due to external factors and the availability of components needed for the hardware being built.

5. Required modifications to the planned approach during the course of the project

The Network Licensee should state any changes to its planned methodology and describe why the planned approach proved to be inappropriate. Please confirm if no changes are required.

Due to the delays a change request will be submitted to extend project to achieve success criteria.

6. Lessons learnt for future projects

Recommendations on how the learning from the Project could be exploited further. This may include recommendations on what form of trialling will be required to move the Method to the next TRL. The Network Licensee should also state if the Project discovered significant problems with the trialled Methods. The Network Licensee should comment on the likelihood that the Method will be deployed on a large scale in future. The Network Licensee should discuss the effectiveness of any Research, Development or Demonstration undertaken.

The project is in the factory development phase, there are no learnings or recommendations identified that can be shared.

7. The outcomes of the project

When available, comprehensive details of the Project's outcomes are to be reported. Where quantitative data is available to describe these outcomes it should be included in the report. Wherever possible, the performance improvement attributable to the Project should be described. If the TRL of the Method has changed as a result of the Project this should be reported. The Network Licensee should highlight any opportunities for future Projects to develop learning further.

The project is in the factory development phase, there are no outcomes that can be shared at this time.

8. Data Access & Quality Details

A description of how any network or consumption data (anonymised where necessary) gathered in the course of the Project can be requested by interested parties. This requirement may be met by including a link to the publicly available data sharing policy.

For information how to request data gathered in the course of this project, see Network Innovation Competition (NIC) and Network Innovation Allowance (NIA) Data Sharing Procedure at https://ssen-innovation.co.uk/innovation-strategy/.

9. Foreground IPR

A description of any foreground IPR that have been developed by the project and how this will be owned.

No foreground IPR has been developed yet.