

Date of Submission

May 2021

Network Innovation Allowance Progress Report

Notes on Completion: Please refer to the appropriate NIA Governance Document to assist in the completion of this form.

Network Licensees must publish the required Project Progress information on the Smarter Networks Portal by 31st July 2014 and each year thereafter. The Network Licensee(s) must publish Project Progress information for each NIA Project that has developed new learning in the preceding relevant year.

Project Progress**Project Title**

Feasibility of Compressed Dry Air 33kV Insulated Switchgear

Project Reference

NIA_SSEN_0042

Funding Licensee(s)

Southern Electric Power Distribution

Project Start Date

December 2019

Project Duration

0 years and 6 months

Nominated Project Contact(s)

SSEN NIA Programme Delivery Manager – Colin Mathieson

Scope

The scope of this project is to undertake a desktop study which will include as a minimum;

- Literature review on compressed dry air as an alternative to SF6, identifying any associated risks and unforeseen challenges;
- Contact with supply chain to ascertain their progress in developing compressed dry air as an insulation medium;
- Identification of the likely parameters of the compressed dry air switchgear, associated operating functionality/performance, operational and maintenance requirement and risk assessments;
Cost Benefit Analysis for potential field trials;
Understand the parameters where compressed dry air can be utilised;
- Produce an implementation plan detailing the requirements if we were to transition compressed dry air 33kV switchgear into business as usual;
Recommend potential for further work if initial timings are positive.

Objectives(s)

The projects objectives are as follows;

- Production of a desktop study which details switchgear manufacturers progress into investigating compressed dry air as an alternative to SF6 for 33kV products.
- Detail an implementation plan required to transition compressed dry air 33kV switchgear into business as usual.

Success Criteria

A report with a clear recommendation on the potential benefits and likely time frames, on the use of compressed dry air as an alternative to SF6, incorporating previously stated project scope and objectives.

Performance Compared to the Original Project Aims, Objectives and Success Criteria

This project is presently in the early stages with no noteworthy material to present.

Required Modifications to the Planned Approach During the Course of the Project

N/A

Lessons Learnt for Future Projects

This project is presently in the early stages with no noteworthy learning to present.

The Outcomes of the Project

This project is presently in the early stages.

Data Access

See Network Innovation Competition (NIC) and Network Innovation Allowance (NIA) Data Sharing Procedure at <https://www.ssen.co.uk/InnovationLibrary/Distribution/>

Foreground IPR

N/A