

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

Whole System Growth Scenario Modelling Phase 2

Project Reference

NIA_SSEN_0043

Funding Licensee(s)

Scottish Hydro Electric Power Distribution

Project Start Date

January 2020

Project Duration

1 year and 6 months

Nominated Project Contact(s)

SSEN NIA Programme Delivery Manager – Colin Mathieson

Scope

The scope of the project is to carry out whole system planning and modelling to a more granular level (11kv distribution network) to understand the impact of low carbon technologies and local authorities' strategies. The project will inform whole system methodology and will capture benefits for GB as a whole, from both a network planning and local stakeholders' perspective.

Objectives(s)

- 1 Enhance a model tool to incorporate new governmental targets for economic and sustainable action plans and provide greater granularity by incorporating the 11kv network.
- 2 Understand the possible patterns of change associated with the Scottish Government 2045 climate change targets (Note: the UK target is 2050) in the distribution networks served by a single Grid Supply Point in an area of accelerated EV growth. Develop optimum solutions to meet whole system needs.
- 3 Validate and calibrate inputs for whole system planning with existing or planned requirements/expectations for the Local Authorities to avoid unnecessary extra work in producing local energy plans/strategies.
- 4 Develop a methodology and framework that allows the two-way transfer of knowledge and understanding between network operators and those that make investment decisions in the areas served by the network, to facilitate efficient whole system planning.

Success Criteria

If the project delivers the anticipated learning to GB stakeholders, then it is deemed successful.

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

This project is known publicly as the Regional Energy System Optimisation Planning (RESOP)

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