Notes on Completion: Please refer to the appropriate NIA Governance Document to assist in the completion of this form. The full completed submission should not exceed 6 pages in total.

NIA Project Registration and PEA Document

Date of Submission	Project Reference Number
Feb 2013	IFI 0621
Project Registration	
Project Title	
Surenet LV Sure	
Project Reference Number	Project Licensee(s)
IFI 0621	SP Energy Networks Distribution
Project Start	Project Duration
April 2005	5 years and 0 months
Nominated Project Contact(s)	Project Budget
SP Energy Networks Innovation	£260,980.00
Summary	
The LV Sure system comprises a source breaker, the Intelligent Intelligent Link Units (ILUs) installed at strategic positions along t	Fuse Unit (IFU); plus a number of mechanical isolating switches, or the LV circuit.
Isolation of the faulted section and restoration of supply to un-fau communication between the devices which comprise the LV Sur	lted sections of the circuit is fully automated and does not require re system.
automatically open, in effect sectioning the circuit. Both the IFU a fault on the electrical section downstream of each Unit. The IFU if healthy would restore supply to the first section. Each ILU in tur downstream and again, if healthy, restore supply. This would con	oly to the entire circuit. The ILUs along the route, sense no voltage and and the ILU incorporate sensing circuitry which tests for the presence of J would commence the restoration process by testing downstream and n would initially sense it has an incoming voltage, then test attinue until the faulted section was reached when testing would inhibit mote end could complete the restoration process until all sections had
Nominated Contact Email Address(es)	
innovate@spenergynetworks.co.uk	
Problem Being Solved	

Scope

Objective(s)

Method(s)

The development of LV Sure will take the SignalSure concept of circuit restoration and consider whether it could be applied to low voltage distribution networks. The project's objectives are to:

- Produce functional specification, detailed product development project plan & test plan for the LVSure system
- Production of a prototype LVSure System and laboratory testing of the system
- Installation and testing of prototype on a representative test circuit
- · Monitoring, evaluation and reporting of the performance of the trial system against functional specification
- Installation and demonstration of a number of prototypes on a selection of LV Networks.

Consumer Vulnerability Impact Assessment (RIIO-2 Projects Only)

n/a

Success Criteria

n/a

Project Partners and External Funding

n/a

Potential for New Learning

n/a

Scale of Project

n/a

Geographical Area

Revenue Allowed for the RIIO Settlement

Indicative Total NIA Project Expenditure

Project Eligibility Assessment Part 1

There are slightly differing requirements for RIIO-1 and RIIO-2 NIA projects. This is noted in each case, with the requirement numbers listed for both where they differ (shown as RIIO-2 / RIIO-1).

Requirement 1

Facilitate the energy system transition and/or benefit consumers in vulnerable situations (Please complete sections 3.1.1 and 3.1.2 for RIIO-2 projects only)

Please answer at least one of the following:

How the Project has the potential to facilitate the energy system transition:

n/a

How the Project has potential to benefit consumer in vulnerable situations:

n/a

Requirement 2 / 2b

Has the potential to deliver net benefits to consumers

Project must have the potential to deliver a Solution that delivers a net benefit to consumers of the Gas Transporter and/or Electricity Transmission or Electricity Distribution licensee, as the context requires. This could include delivering a Solution at a lower cost than the most efficient Method currently in use on the GB Gas Transportation System, the Gas Transporter's and/or Electricity Transmission or Electricity Distribution licensee's network, or wider benefits, such as social or environmental.

Please provide an estimate of the saving if the Problem is solved (RIIO-1 projects only)

n/a

Please provide a calculation of the expected benefits the Solution

n/a

Please provide an estimate of how replicable the Method is across GB

n/a

Please provide an outline of the costs of rolling out the Method across GB.

n/a

Requirement 3 / 1

Involve Research, Development or Demonstration

A RIIO-1 NIA Project must have the potential to have a Direct Impact on a Network Licensee's network or the operations of the System Operator and involve the Research, Development, or Demonstration of at least one of the following (please tick which applies):

Operator and involve the Research, Development, or Demonstration of at least one of the following (please tick which applies):
☐ A specific piece of new (i.e. unproven in GB, or where a method has been trialled outside GB the Network Licensee must justif repeating it as part of a project) equipment (including control and communications system software).
☐ A specific novel arrangement or application of existing licensee equipment (including control and/or communications systems and/or software)
☐ A specific novel operational practice directly related to the operation of the Network Licensees system
☐ A specific novel commercial arrangement
RIIO-2 Projects
☐ A specific piece of new equipment (including monitoring, control and communications systems and software)

☐ A specific piece of new technology (including analysis and modelling systems or software), in relation to which the Method is

unproven
\Box A new methodology (including the identification of specific new procedures or techniques used to identify, select, process, and analyse information)
☐ A specific novel arrangement or application of existing gas transportation, electricity transmission or electricity distribution equipment, technology or methodology
\square A specific novel operational practice directly related to the operation of the GB Gas Transportation System, electricity transmission or electricity distribution
☐ A specific novel commercial arrangement
Specific Requirements 4 / 2a
Please explain how the learning that will be generated could be used by the relevant Network Licensees n/a
Or, please describe what specific challenge identified in the Network Licensee's innovation strategy that is being addressed by the project (RIIO-1 only)
☐ Has the Potential to Develop Learning That Can be Applied by all Relevant Network Licensees
Is the default IPR position being applied? ☐ Yes
Please demonstrate how the learning from the project can be successfully disseminated to Network Licensees and other interested parties.
Please describe how many potential constraints or costs caused, or resulting from the imposed IPR arrangements.<
Please justify why the proposed IPR arrangements provide value for money for customers.
Project Eligibility Assessment Part 2
Not lead to unnecessary duplication
A Project must not lead to unnecessary duplication of any other Project, including but not limited to IFI, LCNF, NIA, NIC or SIF projects already registered, being carried out or completed.
Please demonstrate below that no unnecessary duplication will occur as a result of the Project.
If applicable, justify why you are undertaking a Project similar to those being carried out by any other Network Licensees.
n/a
Additional Governance And Document Upload
Please identify why the project is innovative and has not been tried before n/a
Relevant Foreground IPR
n/a

n/a

Data Access Details

Please identify why the Network Licensees will not fund the project as apart of it's business and usual activities

n/a

Please identify why the project can only be undertaken with the support of the NIA, including reference to the specific risks(e.g. commercial, technical, operational or regulatory) associated with the project

n/a

This project has been approved by a senior member of staff

✓ Yes