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
Mar 2013	
Project Registration	
Project Title	
Fixed Maintenance Earth (FME) - Development of Handlin	ng Techniques and Tools
Project Reference Number	Project Licensee(s)
	National Grid Electricity Transmission
Project Start	Project Duration
December 2010	1 year and 1 month
Nominated Project Contact(s)	Project Budget
National Grid TO Innovation Team	£24,000.00
Summary	
	s always been considered the most onerous and difficult type of FME to ndling and working at height issues surrounding the application of FMEs.
sections in total. Many National Grid substations were desig	45kg in total, with one set of three primary earths being made up of nine gned and constructed in an era where health and safety considerations for y. As a result the location of earthing points can be up to 10m above selv in these conditions is extremely restricted.

## **Nominated Contact Email Address(es)**

box.NG.ETInnovation@nationalgrid.com

## **Problem Being Solved**

#### Method(s)

### Scope

## Objective(s)

This project has several objectives relating to three issues surrounding the continued use of FMEs by NG staff. These are:

- To implement and standardise the Manual Handling and Working at Height technique to transport/transfer FMEs from ground level onto high level working gantries
- To further develop a FME Access Platform for FME Maintenance

• To further develop an extended hand railing for FME Maintenance.

All three key objectives are an effort to reduce the manual handling and working at height requirements for MDE substation staff to complete required safety switching & maintenance activities in a manner which will not place unnecessary stresses on their bodies and thus reduce occupational health issues.

### 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