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

May 2022

Project Reference Number

ENWEN04

Project Registration

Project Title

BiTraDER

Project Reference Number

ENWEN04

Project Licensee(s)

Electricity North West

Project Start

May 2022

Project Duration

4 years and 3 months

Nominated Project Contact(s)

InnovationTeam@enwl.co.uk

Project Budget

£8,367,858.00

Summary

Using extensive engagement with connected resources, culminating in their participation in a real-life trial, BiTraDER will demonstrate how access to a neutral market allows connected resources to trade their obligations bilaterally, encouraging more of them to offer flexible services, increasing availability of flexibility and thereby reducing whole system costs.

Third Party Collaborators

Electron

AFRY Management Consulting Ltd

LCP Delta

Nominated Contact Email Address(es)

innovation@enwl.co.uk

Problem Being Solved

See attached BiTraDER FSP

Method(s)

See attached BiTraDER FSP

Scope

See attached BiTraDER FSP

Objective(s)

See attached BiTraDER FSP

Consumer Vulnerability Impact Assessment (RIIO-2 Projects Only)

N/A

Success Criteria

See attached BiTraDER FSP

Project Partners and External Funding

See attached BiTraDER FSP

Potential for New Learning

See attached BiTraDER FSP

Scale of Project

See attached BiTraDER FSP

Technology Readiness at Start

TRL6 Large Scale

Technology Readiness at End

TRL8 Active Commissioning

Geographical Area

North West of England

Revenue Allowed for the RIIO Settlement

0

Indicative Total NIA Project Expenditure

N/A

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)

See attached BiTraDER FSP

Please provide a calculation of the expected benefits the Solution

See attached BiTraDER FSP

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

See attached BiTraDER FSP

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

See attached BiTraDER FSP

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):

☑ A specific piece of new (i.e. unproven in GB, or where a method has been trialled outside GB the Network Licensee must justify 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

☐ 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

☐ 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

See attached BiTraDER FSP

Or, please describe what specific challenge identified in the Network Licensee's innovation strategy that is being addressed by the project (RIIO-1 only)

See attached BiTraDER FSP

Is the default IPR position being applied?

☑ Yes

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.

See attached BiTraDER FSP

If applicable, justify why you are undertaking a Project similar to those being carried out by any other Network Licensees.

See attached BiTraDER FSP

Additional Governance And Document Upload

Please identify why the project is innovative and has not been tried before

See attached BiTraDER FSP

Relevant Foreground IPR

See attached BiTraDER FSP

Data Access Details

See attached BiTraDER FSP

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

See attached BiTraDER FSP

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

See attached BiTraDER FSP

This project has been approved by a senior member of staff

☑ Yes