

SCOTTISH AND SOUTHERN ENERGY POWER DISTRIBUTION LIMITED  
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Date: 16 February 2024

Dear SCOTTISH AND SOUTHERN ENERGY POWER DISTRIBUTION LIMITED ,

**SIF Project Direction ref:** SSEPD/MaxFlex/SIFWSPFAR/Rd3\_Discovery

Scottish and Southern Energy Power Distribution Limited submitted MaxFlex (the Project) to be considered for funding through the Discovery Phase of round 3 of the Strategic Innovation Fund (SIF). In our<sup>1</sup> SIF Funding Decision finalised on 16 February 2024, we selected the Project<sup>2</sup> for conditional funding for the round 3 Discovery Phase and as a result we are now issuing this SIF Project Direction to implement that decision.

Scottish and Southern Energy Power Distribution Limited must comply with the conditions contained in this SIF Project Direction as a condition of the Project receiving funding through the SIF. These conditions can be found in the Schedule to this document.

**Progression through SIF Phases**

The SIF consists of a multi-phase approach for Projects in order to mitigate the risk associated with innovations. The Discovery Phase focuses on feasibility, the Alpha Phase on experimental development, and the Beta Phase on deployment and demonstration. This Project Direction is for the round 3 Discovery Phase of the SIF.

**Role of UK Research & Innovation (UKRI)**

As per Chapter 1 of the SIF Governance Document<sup>3</sup> the role of UKRI is to deliver the SIF in line with the SIF Governance Document - administering the funding programme,

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<sup>1</sup> The terms 'we', 'us', 'our' refer to the Gas and Electricity Markets Authority. Ofgem is the office of the Authority.

<sup>2</sup> Unless otherwise specified, defined terms in this SIF Project Direction have the meaning given to them in Appendix 1 of the SIF Governance Document.

<sup>3</sup> <https://www.ofgem.gov.uk/publications/updated-sif-governance-document>

monitoring the delivery of Projects, collating data from Projects on benefits, making recommendations to Ofgem on operational matters, supporting third-party innovators and, where possible, supporting successful Projects to become 'business as usual' activities. To support the success of the Projects and the SIF programme, we expect that the Funding Party and Project Partners collaborate with Ofgem and UKRI.

### **SIF Project Direction**

Paragraph 5.14 of the SIF Governance Document states that a SIF Project Direction will:

- Set out the Project-specific conditions, to which the Funding Party is committing in accepting SIF Funding.<sup>4</sup>
- Require the Funding Party to undertake the Project in accordance with the commitments made in the Application. Where appropriate, the SIF Project Direction may therefore include extracts from the Application or refer to specific sections of the SIF Application.<sup>5</sup>
- Where applicable, set out conditions (such as Project stage gates) linked to milestones and deliverables, which Projects must meet.<sup>6</sup>
- Set out the SIF Approved Amount for the Project, that will form part of the calculation contained in the SIF Funding Direction issued by the Authority under chapter 7 of the SIF Governance Document.<sup>7</sup>
- Set out the Project budget that the Funding Party must report against and how variations in the Project budget will be reported.<sup>8</sup>
- Where applicable, set out special information sharing requirements applicable to the Project.<sup>9</sup>
- Set out the mechanism for the Funding Party receiving the SIF Approved Amount as set out in the SIF Funding Direction.<sup>10</sup>

All SIF Project Direction requirements are detailed in the Schedule to this SIF Project Direction.

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<sup>4</sup> 'Project specific conditions' detailed under Point 3 – 'Condition Precedent' of this SIF Project Direction.

<sup>5</sup> 'Project specific conditions' detailed under Point 3 – 'Condition Precedent' of this SIF Project Direction.

<sup>6</sup> 'Project specific conditions' detailed under Point 3 – 'Condition Precedent' of this SIF Project Direction.

<sup>7</sup> 'SIF Funding Amount' detailed under Point 5 – 'Condition President' of this SIF Project Direction.

<sup>8</sup> 'Annex 1 – Project Budget.

<sup>9</sup> 'Project specific conditions' detailed under Point 3 – 'Condition Precedent' of this SIF Project Direction.

<sup>10</sup> 'SIF Funding Amount' detailed under Point 5 – 'Condition Precedent' of this SIF Project Direction.

## **Decision**

Provided the Funding Party complies with the SIF Governance Document and with the Schedule to this SIF Project Direction, the Project is deemed to be an Eligible SIF Project<sup>11</sup>.

This SIF Project Direction constitutes notice pursuant to section 49A (Reasons for decisions) of the Electricity Act 1989.

**Marzia Zafar**

**Deputy Director, Decentralisation & Digitalisation**

**For and on behalf of the Authority**

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<sup>11</sup> 'Eligible SIF Project' is a defined term in the SIF Governance Document. See also, paragraph 5.13 of the SIF Governance Document.

## Schedule to SIF Project Direction

### 1. PROJECT DETAILS

SIF Project Direction reference: SSEPD/MaxFlex/SIFWSPFAR/Rd3\_Discovery

Application number: 10106524

Project title: MaxFlex

Innovation Challenge/Project Phase: Whole system planning and utilisation of networks to facilitate faster and cheaper network transformation and asset rollout / Discovery Phase round 3

Project start date: 01 March 2024

Project end date: 31 May 2024

SIF Approved Amount for SIF Funding: £137,102

### 2. PREAMBLE

This SIF Project Direction is issued by the Gas and Electricity Markets Authority (the "Authority") to Scottish and Southern Energy Power Distribution Limited (the "Funding Party") pursuant to the SIF Governance Document issued pursuant to Special Condition 9.9 of the Electricity Distribution Licence. It sets out the conditions to be complied with in relation to MaxFlex (the "Project") as a condition of it being funded under the SIF Funding Mechanism.<sup>12</sup>

Unless otherwise specified, defined terms in this SIF Project Direction have the meaning given to them in the Licence or Appendix 1 of the SIF Governance Document.

References to specific sections of the Funding Party's Application in this SIF Project Direction are, for ease of reference, made by referring to the section number in the Funding Party's Application.

### 3. PROJECT SPECIFIC CONDITIONS

In accepting funding for the Project, the Funding Party is subject to the following Project-specific conditions:

#### **Condition 1**

The Funding Party must not spend any SIF Funding until contracts are signed with the Project Partners named in Table 1 for the purpose of completing the Project.

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<sup>12</sup> The SIF Funding Return Mechanism is defined in the SIF Governance Document.

**Table 1. Project Partners**

GREATER LONDON AUTHORITY HOLDINGS LIMITED
UNIVERSITY OF READING
BARINGA PARTNERS LLP

### **Condition 2**

The Funding Party must report on the financial contributions made to the Project as set out in its Application. Any financial contributions made over and above that stated in its Application should also be reported and included within the Project costs template.

### **Condition 3**

The Funding Party must make reasonable endeavours to participate in all meetings related to the Project that they are invited to by Ofgem, UKRI and DESNZ during the Discovery Phase.

### **Condition 4**

Prior to the completion of the Discovery Phase, the Funding Party must provide evidence to the Monitoring Officer that it has considered linkages with relevant studies and Projects OptiHeat, and, KnowMyFlex and understands the duplication risk or knowledge sharing opportunity of the scope of this Project.

### **Condition 5**

Prior to the end of the Discovery Phase, the Funding Party must present to the Monitoring Officer an updated stakeholder engagement plan, showing key stakeholders and focussing on ensuring earlier engagement.

## **4. COMPLIANCE**

The Funding Party must comply with Special Condition 9.9 of the Electricity Distribution Licence, the SIF Governance Document and with this SIF Project Direction.

## **5. SIF APPROVED AMOUNT**

The SIF Approved amount of £137,102 (as detailed under Section 1: Project details of this Project Direction) will be recovered by National Grid Electricity System Operator from GB customers and transferred to the Funding Party. The Funding Party is responsible for notifying National Grid Electricity System Operator of the bank account details to which transfers must be made, in addition to completing Annex 2 of this SIF Project Direction. If a Funding Party is required to return funding to National Grid

Electricity System Operator, the reverse applies. The Funding Party must provide bank account details to National Grid Electricity System Operator within two weeks of accepting this SIF Project Direction.

## **6. PROJECT BUDGET**

The Project budget is set out in Annex 1 of this SIF Project Direction.

The Funding Party must report on expenditure against each line under the category total in the Project Budget and explain any projected variance against each line as part of its detailed report which will be provided, in accordance with Chapter 7 of the SIF Governance Document. The Funding Party must report variations in the Project budget as outlined in Chapter 6 of the SIF Governance Document.

## **7. PROJECT IMPLEMENTATION**

The Funding Party must undertake the Project in accordance with the commitments it has made in the Application and with the conditions of this SIF Project Direction. These include (but are not limited to) the following:

- (i) To undertake the Project in accordance with its Application,
- (ii) To complete the Project on or before the Project completion date as detailed under Section 1 of the Schedule to this SIF Project Direction, and
- (iii) To disseminate the learning from the Project at least to the level described in chapter 3 of the SIF Governance Document. Dissemination of learning must be carried out whether the Project was concluded successfully or otherwise.

## **8. REPORTING**

Ofgem and UKRI may issue guidance (and amend it from time to time) about the structure and content of the Project reporting required by Chapter 6 of the SIF Governance Document. The Funding Party must follow this guidance in preparing the reports.

As set out in chapter 6 of the SIF Governance Document, the Funding Party may be required to submit an end of Phase report to the UKRI monitoring officer for the round 3 Discovery Phase. An end of Phase report is required for the round 3 Discovery Phase if the Project is not planning on submitting an Application to the round 3 Alpha Phase and, if the Funding Party submits an Application for the Project for the round 3 Alpha Phase but is not successful. Within this report, the Funding Party must submit information

related to questions on Project delivery as detailed in chapter 6, table 6 of the SIF Governance Document.

## **9. MONITORING**

The Funding Party must comply with any reasonable request for information by its monitoring officer at UKRI and related deadlines. Ofgem, with the support of UKRI, will together monitor Project delivery, impacts and benefits. Throughout the term of the Project, progress is monitored by UKRI through a monitoring officer. The monitoring officer is the first point of contact for official notifications, queries and correspondence with UKRI and the Authority, unless otherwise required by this SIF Project Direction.

As detailed in Chapter 6 of the SIF Governance Document, meetings with the monitoring officer will take place at regular intervals, as advised by Ofgem or the monitoring officer during the delivery of the Project, and at the end of each Project Phase.

## **10. EVALUATION**

The Funding Party has acknowledged when it submitted its Application for this Project, that reporting information and data gathered during the Project's timescales (as detailed in Section 1 of the Schedule to this SIF Project Direction) will be used to evaluate Project performance. In addition, the Funding Party may be required to provide requested information outside of the Project timescales and, in particular, for the period from the Project end date to the end of the SIF Programme. Further data and reporting information may be requested (frequency and method based on requirement) outside of standard monitoring and reporting requirements as deemed necessary. Further data and information requirements must be complied with by the Funding Party and Project Partners.

## **11. DATA SHARING**

As set out in Chapter 3 of the SIF Governance Document, the Funding Party must follow Data Best Practice Guidance with regards to all data gathered or created in the course of a Project. We expect the Funding Party to document any reasons, such as commercial sensitivities, for desensitising data. As defined by, and in accordance with, Data Best Practice Guidance, Funding Parties must have a data triage process. Where multiple Project Partners are collaborating on a Project, the consortium must adopt a consistent Open Data Triage for the data related to the Project. Ofgem may require that Project information and data is also shared with other specified parties, such as parties working

on complementary innovation funding programmes (subject to redaction of sensitive data).

## **12. CYBER SECURITY**

It is the responsibility of the Funding Party and all Project Partners to implement and maintain appropriate security measures to protect personal data in accordance with The General Data Protection Regulation<sup>13</sup> and Data Protection Act 2018<sup>14</sup>.

Protection of computer systems from unauthorised access or being otherwise damaged or made inaccessible must be in place alongside effective working practices. These must be maintained in line with the Funding Party's IT Management Strategies and policies.

## **13. PROJECT MILESTONES**

The Funding Party must provide an outline in its end of Project Phase meeting with its UKRI monitoring officer that verifies the Project milestones have been achieved or explains why they have not.

Project milestones are outlined below in Table 3, based upon details contained within Question 7 and Appendix Question 9 in the Funding Party's Application.

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<sup>13</sup> [https://ec.europa.eu/info/law/law-topic/data-protection/data-protection-eu\\_en](https://ec.europa.eu/info/law/law-topic/data-protection/data-protection-eu_en)

<sup>14</sup> <https://www.legislation.gov.uk/ukpga/2018/12/contents/enacted>



**Table 3. Project milestone<sup>15</sup>**

Reference	Project milestone	Deadline	Overall objectives and key tasks	SIF Funding Request
Milestone 1	Work package 1: Project Management	31 May 2024	<p>Overall objective: Co-Ordination of Discovery deliverables, project performance, end stage report and Alpha application etc.</p> <p>UKRI engagement;</p> <p>Key tasks:</p> <ol style="list-style-type: none"> <li>1. Coordination of Deliverables and monitoring</li> <li>2. Risk and Barrier management and monitoring</li> <li>3. Weekly sessions and workshop (face to face) management</li> <li>4. UKRI engagement</li> <li>5. Alpha application engagement</li> </ol>	£18,929
Milestone 2	Work package 2: Use-cases and CBA	31 May 2024	<p>Overall objective: Identify the key stakeholders and define the benefits and costs associated with them. Validate the use cases with the stakeholders and provide a commercial model for their operations.</p>	£42,962

<sup>15</sup> As outlined in in the Application or Project Plan appendix.

			<p>Key tasks:</p> <ol style="list-style-type: none"> <li>1. Identify use-cases for EFCs.</li> <li>2. Test the validity of the use-cases with relevant stakeholders.</li> <li>3. Scope areas of benefits for each use-case.</li> <li>4. In coordination with other WPs scope areas of costs.</li> <li>5. Develop high level options for commercial models for operating I&amp;C EFCs.</li> <li>6. Test feasibility of commercial models with stakeholders.</li> <li>7. Scope route to market for I&amp;C EFCs.</li> </ol>	
Milestone 3	Work package 3: EFC metrics and structure	31 May 2024	<p>Overall objective: Using existing work, map the metrics to the use cases, and identify any additional ones. Create a data structure to accommodate the metrics and design a visual prototype. Validate with relevant stakeholders.</p> <p>Key tasks:</p> <ol style="list-style-type: none"> <li>1. Map existing metrics developed for EFC to the identified use-cases.</li> <li>2. Identify what additional models are required for dynamic metrics</li> <li>3. Outline data requirements for the models and metrics.</li> <li>4. Develop initial design of data structure to accommodate the data, models and metrics.</li> </ol>	£27,853

			<p>5. Develop a visual prototype of static and dynamic parts of EFC.</p> <p>6. Test static and dynamic parts of EFC with relevant stakeholders.</p> <p>7. Package the Deliverables and execute final validations.</p>	
Milestone 4	Work package 4: Enabling infrastructure	31 May 2024	<p>Overall objective: Define typical owners for the data identified in previous work pack and define what infrastructure is required to acquire that data. Develop the process flows and how they will be operated.</p> <p>Key tasks:</p> <ol style="list-style-type: none"> <li>1. Using work in WP2 and WP3, Identify holders of the relevant data required for EFC metrics and models.</li> <li>2. Develop an outline of integration requirements for the enabling infrastructure to access relevant data and to give access to relevant metrics and models as per the identified use-cases.</li> <li>3. Develop a process flow for gathering for each of the identified use case.</li> <li>4. Develop a process flow for accessing the EFC data for each of the identified use case.</li> <li>5. Define the operating model (inc roles and responsibility) for maintaining EFC framework.</li> </ol>	£27,617

			6. Package the Deliverables and execute final validations.	
Milestone 5	Work package 5: Stakeholder engagement	31 May 2024	<p>Overall objective: Execute stakeholder management and validate the findings with the stakeholders. Capture any lessons learnt and finalise the findings.</p> <p>Key tasks:</p> <ol style="list-style-type: none"> <li>1. Assess the identified use-cases on relevance to stakeholder groups.</li> <li>2. Test the concept of EFC with stakeholders not considered to be primary users of EFCs.</li> <li>3. Support other WPs in engagement with stakeholders</li> <li>4. Report back to stakeholders on learning and development of EFCs.</li> <li>5. Package the Deliverables and execute final validations.</li> </ol>	£19,741

#### **14. USE OF LOGO**

The Funding Party, Project Partners, External Funders and Project Supporters including any of their subcontractors<sup>16</sup> must not use the Innovate UK/UKRI and/or Ofgem logo for purposes associated with the Project in any circumstances.

As an alternative for use of both Ofgem and UKRI logos, all external Project communications must include the following standard form of wording:

- (i) "this project is funded by network users and consumers under the Strategic Innovation Fund, an Ofgem programme managed in partnership with UKRI."

For additional guidance, refer to the communications and media guidelines for competition winners, detailed as part of your delivery pack. These guidelines are designed to help with some suggestions and encourage you to take a proactive approach to communicating about your Project.

#### **15. SHARING OF LESSONS LEARNED**

The Funding Party is required to ensure that the sharing of lessons learned and the facilitation of knowledge transfer is conducted as effectively as possible, to ensure that all parties, and therefore all consumers including future consumers, can benefit from Projects.

As contained within Chapter 3 of the SIF Governance Document, we require the Funding Party to work collaboratively to maintain the ENA Smarter Networks Portal so that all reporting and dissemination of learnings on Projects (as required by chapter 6 of the SIF Governance Document) is available via the ENA Smarter Networks Portal.

#### **16. COLLABORATION**

The Funding Party must collaborate with third-party innovators as Project Partners, as well as work closely with other parties in the energy supply chain, as set out in Chapter 3 of the SIF Governance Document.

The Funding Party must collaborate with other parties and with UKRI to organise an annual conference in a format appropriate to enabling the building of consortiums and the dissemination of learning widely. The conference may be a single event for gas and electricity, or more than one event, as appropriate.

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<sup>16</sup> As detailed in the Application.

## **17. AMENDMENT OR REVOCATION**

As set out in Chapter 7 of the SIF Governance Document, this SIF Project Direction may be amended or revoked under the following circumstances:

- (i) if the Funding Party considers that there has been a Material Change in circumstance that requires a change to the SIF Project Direction, and the Authority agrees; or
- (ii) to reflect amendments made to the Licence.

## **18. HALTING OF PROJECTS**

This SIF Project Direction is subject to the provisions contained in Chapter 7 of the SIF Governance Document relating to the halting of Projects. By extension, this SIF Project Direction is subject to any decision by the Authority to halt the Project to which this SIF Project Direction relates and to any subsequent relevant SIF Funding Direction issued by the Authority pursuant to Special Condition 9.9 of the Electricity Distribution Licence.

Further to the requirements in Chapter 7 of the SIF Governance Document, in the event the Authority decides to halt the Project, to which this SIF Project Direction relates, the Authority may issue a statement to the Funding Party clarifying the effect of that halting decision as regards to the status and legal force of the conditions contained in this SIF Project Direction.

### **NOW THEREFORE:**

In accordance with the SIF Governance Document issued pursuant to Special Condition 9.9 of the Electricity Distribution Licence of the Licence the Authority hereby issues this SIF Project Direction to the Funding Party in relation to the Project.

This constitutes notice of reasons for the Authority's decision pursuant to section 49A (Reasons for decisions) of the Electricity Act 1989.

Failure to comply with the conditions of this SIF Project Direction means that Ofgem may treat all or part of the SIF Approved Amount received by the Funding Party as SIF Disallowed Expenditure.

## ANNEX 1: PROJECT BUDGET

SIF Project Direction costs	
Cost Category	Total Project costs (£)
Labour	144,142
Materials	500
Subcontracting	0
Travel and subsistence	3,022
Other costs	9,670
<b>Total</b>	<b>157,334</b>

Project Partner	Total Project costs (£)	Project contribution (£)	Total SIF Funding requested (£)	Project contribution (%)
southern electric power distribution PLC	14,557	3,283	11,274	22.55
University of Reading	18,268	0	18,268	0.00
BARINGA Partners LLP	119,509	11,950	107,559	10.00
Greater London Authority Holdings Ltd	5,000	4,999	1	99.98
<b>Total</b>	<b>157,334</b>	<b>20,232</b>	<b>137,102</b>	<b>12.86</b>

**ANNEX 2 TO SCHEDULE: TEMPLATE OF BANK ACCOUNT DETAILS TO BE PROVIDED TO EITHER NGT ([BOX.GSOSETTLEMENTS@NATIONALGRID.COM](mailto:BOX.GSOSETTLEMENTS@NATIONALGRID.COM)) OR NG ESO ([revenue.invoice@nationalgrideso.com](mailto:revenue.invoice@nationalgrideso.com))**

**Company name:**

**Primary Contact Details (only one contact permitted)**

First Name:

Last Name:

Email address:

Mobile phone number:

Work phone number:

**Address details**

Address name:

Street address:

City:

State / region:

Post code:

PO box: (if applicable)

PO box post code: (if applicable)

**Banking details**

These should be evidenced in non-editable format. The evidence provided must show company name and bank details and it should be dated within the last 6 months.

Any of the below documents will suffice:

- Bank statement (scanned document)
- Void cheque
- Paying in slip
- Screenshot of online banking (showing a logged in account with bank account and sort code, with browser visible)