

NATIONAL GRID ELECTRICITY DISTRIBUTION
Avonbank, Feeder Road
Bristol, Avon
BS2 0TB

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Email: Marzia.Zafar@ofgem.gov.uk

Date: 4 April 2023

Dear National Grid Electricity Distribution,

SIF Project Direction ref: NGED/PIONEER/SIFADMED/Rd2 Discovery

National Grid Electricity Distribution submitted Proportional Investment Of Networks in Energy Efficiency Retrofit (PIONEER) (the Project) to be considered for SIF Funding in the round 2 Discovery Phase of the Strategic Innovation Fund (SIF). In our¹ SIF funding decision issued on 4 April 2023, we selected the Project² for conditional funding and as a result we are now issuing this SIF Project Direction to implement that decision.

National Grid Electricity Distribution 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 and rounds

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 2 Discovery Phase of the SIF.

Role of UK Research & Innovation (UKRI)

As per Chapter 1 of the SIF Governance Document³ the role of UKRI is to deliver the SIF in line with the SIF Governance Document - administering the funding programme, monitoring the delivery of Projects, collating data from Projects on benefits, making recommendations to Ofgem on operational matters, supporting third-party innovators

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

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

³ <https://www.ofgem.gov.uk/sites/default/files/2023-02/SIF%20Governance%20Document%20v2.1%20final%20clean.pdf>

and, where possible, 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.⁴
- 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.⁵
- Where applicable, set out conditions (such as Project stage gates) linked to milestones and deliverables, which Projects must meet.⁶
- 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.⁷
- Set out the Project budget that the Funding Party must report against and how variations in the Project budget will be reported.⁸
- Where applicable, set out special information sharing requirements applicable to the Project.⁹
- Set out the mechanism for the Funding Party receiving the SIF Approved Amount as set out in the SIF Funding Direction.¹⁰

All SIF Project Direction requirements are detailed in the Schedule to 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 Project¹¹.

⁴ 'Project specific conditions' detailed under Point 3 – 'Condition President' of this SIF Project Direction.

⁵ 'Project specific conditions' detailed under Point 3 – 'Condition President' of this SIF Project Direction.

⁶ 'Project specific conditions' detailed under Point 3 – 'Condition President' of this SIF Project Direction.

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

⁸ 'Annex 1 – Project Budget.

⁹ 'Project specific conditions' detailed under Point 3 – 'Condition President' of this SIF Project Direction.

¹⁰ 'SIF Funding Amount' detailed under Point 5 – 'Condition President' of this SIF Project Direction.

¹¹ The meaning 'Eligible SIF Project' is described in Chapter 2 of the SIF Governance Document.

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

Marzia Zafar

Deputy Director of Strategy & Decarbonisation

For and on behalf of the Authority

Schedule to SIF Project Direction

1. PROJECT DETAILS

SIF Project Direction reference: NGED/PIONEER/SIFADMED/Rd2_Discovery

Application number: 10061292

Project title: Proportional Investment Of Networks in Energy Efficiency Retrofit (PIONEER)

Innovation Challenge/Project Phase: Accelerating decarbonisation of major energy demands/ Discovery Phase round 2

Project start date: 3 April, 2023

Project end date: 30 June, 2023

SIF Approved Amount for SIF Funding: £125,446

Total Compulsory Contribution¹²: £17,733

2. PREAMBLE

This SIF Project Direction is issued by the Gas and Electricity Markets Authority (the "Authority") to National Grid Electricity Distribution (the "Funding Party") pursuant to the SIF Governance Document issued pursuant to Special Condition 9.9 of the Electricity Distribution Licence (the "Licence"). It sets out the conditions to be complied with in relation to Proportional Investment Of Networks in Energy Efficiency Retrofit (PIONEER) (the "Project") as a condition of it being funded under the SIF Funding Mechanism.¹³

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 condition(s):

Condition 1

¹² The Compulsory Contribution is defined in the SIF Governance Document.

¹³ The SIF Funding Return Mechanism is defined in the SIF Governance Document.

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.

Table 1. Project Partners

CARBON TRUST ADVISORY LIMITED
FRONTIER ECONOMICS LIMITED
WEST OF ENGLAND COMBINED AUTHORITY
DEVON COUNTY COUNCIL

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 participate in all meetings related to the Project that they are invited to by Ofgem, UKRI and DESNZ (formerly BEIS) during the Project Phase.

4. COMPLIANCE

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

5. SIF APPROVED AMOUNT

The SIF Approved amount of £125,446 (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) undertake the Project in accordance with its Application,
- (ii) complete the Project on or before the Project completion date as detailed under section 1 of the schedule of this SIF Project Direction, and
- (iii) 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.

Each Project not intending to submit an Application to the next Project Phase must submit an end of Project Phase report to the monitoring officer. Projects which are not successful at the next Project Phase must either retrospectively complete an end of Phase report and publish it on the Smarter Networks Portal, or publish their unsuccessful Application (redacted where necessary) and close out meeting slides for this Project Phase on the Smarter Networks Portal.

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 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 Triage Process 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 GDPR (General Data Protection Regulation)¹⁴ and DPA (Data Protection Act) 2018¹⁵.

¹⁴ https://ec.europa.eu/info/law/law-topic/data-protection/data-protection-eu_en

¹⁵ <https://www.legislation.gov.uk/ukpga/2018/12/contents/enacted>

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 verify in its end of Project Phase meeting with the monitoring officer whether the Project milestones have been achieved or explain why they have not been.

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

Table 3. Project milestone¹⁶

Reference	Project milestone	Deadline	Evidence	SIF Funding Request (100%) ¹⁷
Milestone 1	Work package 1: Further NGED tool development	June 30, 2023	Overall work package objectives: Scoping of the further development of the DEFENDER tools that would assist with this project e.g. building a GIS interface, additional functionality to rapidly assess multiple areas, incorporation of EV, battery and domestic solar technologies, automated interfaces with NGED datasets and addition of capital and operating costs within the DEFNEDER tool itself. Where possible, this additional functionality would be implemented during Discovery, with larger developments being incorporated into the Alpha plan.	£37,000.00

¹⁶ As outlined in the Application or Project Plan appendix.

¹⁷ Where Project Applications were not explicit on milestone(s) as a percentage of total SIF Funding Request, milestone(s) as a percentage of total project costs were applied to the SIF Funding Request. In some circumstances where the information needed to complete this table was not available in an Application, Funding Parties were requested to provide this information separately.

			<p>Key tasks:</p> <ol style="list-style-type: none"> 1. Review of DEFENDER including recommendations on further tool development 2. Engage with NGED DSO procurement team to understand interactions between forecast and DNOA outputs into commercial procurement 3. Scoping of potential developments to tools developed for DEFENDER WP2 (assessment of energy efficiency interventions), including short-term changes that would aid the Discovery process, and larger changes which could help further stages of the project. 4. Scoping of potential developments to tools developed for DEFENDER WP1 (estimation of consumption profiles pre- and post-retrofit). 5. Scoping of potential developments to internal NGED processes. 6. Carrying out short-term changes to DEFENDER WP2 models, as required for remainder of Discovery 7. Carrying out short-term changes to DEFENDER WP1 models 8. Carrying out short-term changes to NGED internal processes <p>Milestone(s):</p> <ul style="list-style-type: none"> - Completion of scope document relating to 	
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			<p>DEFENDER WP2 and NGED tools: Clear prioritised list of model developments useful for Discovery, and for future phases. (£8,750.00)</p> <ul style="list-style-type: none"> - Completion of scope document relating to DEFENDER WP1 tools: Clear prioritised list of model developments useful for Discovery, and for future phases. (£8,750.00) - Completion of scoped modelling tasks achievable in Discovery relating to DEFENDER WP2 models and NGED processes: Models can be used to support the longlisting process in work package 2. (£9,750.00). - Completion of scoped modelling tasks achievable in Discovery relating to DEFENDER WP1 models: Models can be used to support the longlisting process in work package 2. (£9,750.00). 	
Milestone 2	Work package 2: Initial longlisting of potential demonstrator locations	June 30, 2023	<p>Overall work package objectives: Identifying the criteria that will be used to select the area(s) for trials, and the types of properties targeted within those areas. For example, this will include a consideration of where the value of energy efficiency interventions are</p>	£21,500.00

			<p>likely to be greatest, what types of schemes may be easier to replicate, and consideration of other goals such as helping customers in vulnerable situations.</p> <p>Using these criteria, together with the tools and outputs from the existing Project Defender, to produce a long-list of areas.</p> <p>Key tasks:</p> <ol style="list-style-type: none"> 1. Articulate the broad goals of the alpha and beta stages (for example, should the focus be only on areas where energy efficiency interventions have the highest chance of success, or would focusing on key uncertainties deliver more value?) 2. Determine a set of SMART quantitative criteria which reflect these priorities and can be used to select network areas. 3. Using the tools developed for Project DEFENDER (and an updates made as part of Work Package 1) apply the criteria to WPD's network areas to produce a long-list of CMZs 4. Determine the local authorities which these CMZs lie within 5. Engage with local authorities in longlist areas to explore potential of a Demonstrator and overlap with existing funding streams 6. Document results 	
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			<p>Milestone(s):</p> <ul style="list-style-type: none"> - List of criteria: Criteria are SMART and can be calculated using tools developed in DEFENDER and Work Package 1. (£4,250.00). - Completed longlist: A list of candidate regions which fulfil the criteria, together with information on potential funding streams. Sufficient confidence that a demonstrator scheme could be designed. (£17,250.00). 	
Milestone 3	Work package 3: Identifying existing and potential funding strategies for energy efficiency retrofit.	June 30, 2023	<p>Overall work package objectives:</p> <p>Identify the existing funding routes for domestic energy efficiency to:</p> <ul style="list-style-type: none"> a) understand the current investment case for thermal energy efficiency measures, building on DEFENDER CBAs b) understand the current funding landscape that DNO funding must be compatible with c) understand the gaps in the current funding landscape, which DNO funding could be targeted towards. <p>Key tasks:</p> <ol style="list-style-type: none"> 1. Consolidating information on partner combined and local authority energy efficiency programmes 	£22,000.00

			<p>2. Secondary research identifying thermal energy efficiency funding sources in the UK</p> <p>3. Up to 8 research calls with key stakeholders across the sector</p> <p>4. Mapping of funding sources for different home types and insulation measures</p> <p>5. Identifying gaps in funding landscape for viable installation of thermal energy efficiency measures</p> <p>6. Summary Report writing, including recommendations for Alpha.</p> <p>Milestone(s):</p> <ul style="list-style-type: none"> - WECA/Devon CC domestic energy efficiency programmes. - Completion of secondary research. (£10,000.00). - Completion of research calls (£4,000.00). - Completion of mapping and gap analysis (£4,000.00) - WP3 report (£4,000.00) 	
Milestone 4	Work package 4: Initial identification of routes for DNOs to impact domestic thermal energy efficiency uptake	June 30, 2023	<p>Overall work package objectives:</p> <p>Identification of:</p> <p>a) the key decision makers and decision points in the implementation of domestic energy efficiency retrofit</p> <p>b) novel business models in the UK and internationally which have led to successful implementation of</p>	£16,000.00

			<p>domestic energy efficiency measures</p> <p>c) initial assessment of the decision points where DNO funding could have maximum impact, which will be taken forward to Alpha</p> <p>Key tasks:</p> <ol style="list-style-type: none"> 1. Literature review 2. Research calls 3. Mapping of key stakeholders and the customer journey 4. Identification of novel business models and funding routes 5. Assessment of routes for DNOs to impact domestic energy efficiency retrofit 6. Summary Report writing, including recommendations for Alpha <p>Milestone(s):</p> <ul style="list-style-type: none"> - Completion of secondary research: Insights on any relevant funding models that could be applied. (£4,666.67). - Completion of research calls: Insights on any relevant funding models that could be applied. (£4,666.67). - Completion of WP4 report. (£6,666.67). 	
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Milestone 5	Work package 5: Development of Alpha plan	June 30, 2023	<p>Overall work package objectives: Consolidation of findings from WP1-4 into a work plan for Alpha.</p> <p>Key tasks:</p> <ol style="list-style-type: none"> 1. Review all outputs from previous work packages 2. Identify and engage with potential additional consortium members, including social housing landlords and energy efficiency retrofit providers 3. Collaborate with UKRI identifying funding strategies for the energy efficiency measures to be deployed in the demonstrator, as SIF funding is limited to network infrastructure only 4. Scoping workshop to define Alpha scope and work packages 5. Drafting of Alpha scope to feed into Alpha application <p>Milestone(s):</p> <ul style="list-style-type: none"> - Completion of Alpha scope. (£13,558.00). 	£13,558.00
Milestone 6	Work package 6: Project coordination	June 30, 2023	<p>Overall work package objectives: Deliver the project on time and budget Provide steer to work package 1-5 delivery Planning and completion of dissemination activities.</p> <p>Key tasks:</p>	£16,603.00

			<ol style="list-style-type: none"> 1. Organising, attending and minuting weekly project meetings 2. Set up and maintenance of an online data platform to share project related information, data and documents 3. Implementation and maintenance of a Risk Register 4. Quality assurance of outputs 5. Maintenance of project plan and tracking progress 6. Producing End-of-Month Finance reports to UKRI 7. Invoicing 8. Participation in dissemination activities including SIF show and tell webinars 9. Production of project close out report <p>Milestone(s):</p> <ul style="list-style-type: none"> - Completion of Monthly report 1. (£408.80). - Completion of Monthly report 2. (£408.80). - show and tell webinar. (£2,408.80). - Completion of project close out report. (£8,408.80). - Overall project management completed. (£4,967.80). 	
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14. USE OF LOGO

The Funding Party and the Project Partners, External Funders and Project Supporters or subcontractors¹⁸ 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 disseminating learning widely. The conference may be a single event for gas and electricity, or more than one event, as appropriate.

¹⁸ 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 (the "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, 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 (the "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	126,616
Materials	0
Subcontracting	15,564
Travel and subsistence	0
Other costs	10
Total	143,180

Project finances				
Project Partner	Total project costs (£)	Project Compulsory Contribution (%) ¹⁹	Project Compulsory Contribution (£)	Total SIF Funding requested (£)
NATIONAL GRID ELECTRICITY DISTRIBUTION	15,456	15%	2,010	13,446
CARBON TRUST ADVISORY LIMITED	60,600	10%	5,600	55,000
FRONTIER ECONOMICS LIMITED	63,630	12%	6,630	57,000
WEST OF ENGLAND COMBINED AUTHORITY	1,063	100%	1,063	0
DEVON COUNTY COUNCIL	2,430	100%	2,430	0
Total	143,179	14%	17,733	125,446

¹⁹ The Project contribution is calculated as percentage of the SIF Funding requested per Project Partner and for the Project.

**ANNEX 2 TO SCHEDULE: TEMPLATE OF BANK ACCOUNT DETAILS TO BE
PROVIDED TO NG ESO (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)