# Study Proposal Form

The questions that you will be asked may depend on the characteristics of the lead applicant, project partners, site, and technology.

This document provides an overview of all questions that could be asked in each section of the Study proposal form. The key for identifying standard versus proposal specific sections is as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Standard section**  |   |   | **Proposal specific section**  |

If you are working on elements of the application form in an offline version, please ensure that you leave sufficient time ahead of the window deadline to upload your answers. We will not accept applications that are not submitted via Smart Survey.

Please note that the numbering of the questions you see in the online application form may differ to the numbering in this form.

**1. Part 0: Start**

This Study Application form is for applicants proposing a Study. The Study strand of the competition is appropriate if you intend to do a preliminary investigation into a technology solution(s).

Please ensure you have submitted the Applicant Details form before completing this Energy Efficiency Deployment Application form.

To help us match this Study Proposal form with your Applicant Details form, please upload your Applicant Details form here.

### **1. Please upload your submitted Applicant Details form here. \***

|  |
| --- |
|  File: {{filename}} |

Choose File

Uploading...

If you do not have your submitted Applicant Details responses, please give detail of you and your business to help us match the application forms.

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### **2. Name of lead applicant.Please ensure the lead applicant is identical to that used in the Applicant Details form. \***

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### **3. Lead applicant's e-mail.Please ensure the lead applicant is identical to that used in the Applicant Details form. \***

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**2. Part 1: Partners (1/12)**

### **4. Will you be undertaking this project with other organisations who will act as project partners?Lead applicants can collaborate with other organisations provided the project partners meet the criteria below. To collaborate with the lead the organisation must:be a business of any size, a research organisation, a research and technology organisation, an academic institution, charity or a public sector organisation be registered in the UK carry out its project work in relation to the lead applicant's site located in England, Wales or Northern Ireland. If the lead is collaborating with project partners, then the costs relating to the lead and project partners must be included in the application. \***

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|    | Yes |
|    | No |

**3. Part 1: Partners (2/12)**

### **5. Name of project partner. \***

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### **6. Is the partner organisation registered on Companies House? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

**4. Part 1: Partners (3/12)**

### **7. UK business registration number.The business registration number should be 8 characters long. This can be found on Companies House. \***

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**5. Part 1: Partners (4/12)**

### **8. Alternative business record.If the partner organisation does not have a Companies House registration number, please provide the organisation's HMRC Unique Taxpayer Reference number. This should be ten digits long. Alternatively, please explain why this information cannot be provided at this time. \***

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**6. Part 1: Partners (5/12)**

### **9. Project partner's full registered address.Businesses must be registered in England, Wales, Northern Ireland, or Scotland to be eligible.Please enter the address in the box below, excluding the country and postcode which are requested separately in the following questions. \***

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### **10. Country. \***

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|    | England |
|    | Scotland |
|    | Wales |
|    | Northern Ireland |

### **11. Postcode \***

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### **12. How many people are employed by the project partner?From the project partner's most recent annual accounts, can be based on an average from the last two reporting periods. \***

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### **13. Is this project partner acting economically in the project team?This means where a project partner is incurring costs. \***

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|    | Yes |
|    | No |

**The following questions relate to your partner.**

### **14. Are you in receipt of, or are you intending to apply for, any other funding provided under the same set of eligible costs as this competition?If the answer is "yes" this constitutes duplicate funding and is not eligible for grant award funding. \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

### **15. Have you received other public sector funding in the last 3 years, or will you be receiving other public sector funding in the next 3 years (where you have applied and been successful)?If you answer "yes" to this question, you may be asked further questions at due diligence stage to ascertain whether your organisation will be in receipt of more than 325,000 Special Drawing Rights as defined in the EU-UK Trade and Cooperation Agreement or, in the case of projects subject to the Northern Ireland Protocol, more than the €200,000 de minimis threshold as defined in EU General Block Exemption Regulation; both sums are over a three year fiscal period. \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

**7. Part 1: Partners (11/12)**

### **16. Do you have a second additional partner? \***

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| --- | --- |
|    | Yes |
|    | No |

**8. Part 1: Partners (2/12) Partner 2**

### **17. Name of project partner. \***

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### **18. Is the partner organisation registered on Companies House? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

**9. Part 1: Partners (3/12) Partner 2**

### **19. UK business registration number.The business registration number should be 8 characters long. This can be found on Companies House. \***

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**10. Part 1: Partners (4/12) Partner 2**

### **20. Alternative business record.If the partner organisation does not have a Companies House registration number, please provide the organisation's HMRC Unique Taxpayer Reference number. This should be ten digits long. Alternatively, please explain why this information cannot be provided at this time. \***

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**11. Part 1: Partners (5/12) Partner 2**

### **21. Project partner's full registered address.Businesses must be registered in England, Wales, Northern Ireland, or Scotland to be eligible.Please enter the address in the box below, excluding the country and postcode which are requested separately in the following questions. \***

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### **22. Country. \***

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| --- | --- |
|    | England |
|    | Scotland |
|    | Wales |
|    | Northern Ireland |

### **23. Postcode \***

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### **24. How many people are employed by the project partner?From the project partner's most recent annual accounts, can be based on an average from the last two reporting periods. \***

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### **25. Is this project partner acting economically in the project team?This means where a project partner is incurring costs. \***

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|    | Yes |
|    | No |

**The following questions relate to your partner.**

### **26. Are you in receipt of, or are you intending to apply for, any other funding provided under the same set of eligible costs as this competition?If the answer is "yes" this constitutes duplicate funding and is not eligible for grant award funding. \***

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|    | Yes |
|    | No |

### **27. Have you received other public sector funding in the last 3 years, or will you be receiving other public sector funding in the next 3 years (where you have applied and been successful)?If you answer "yes" to this question, you may be asked further questions at due diligence stage to ascertain whether your organisation will be in receipt of more than 325,000 Special Drawing Rights as defined in the EU-UK Trade and Cooperation Agreement or, in the case of projects subject to the Northern Ireland Protocol, more than the €200,000 de minimis threshold as defined in EU General Block Exemption Regulation; both sums are over a three year fiscal period. \***

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|    | Yes |
|    | No |

**12. Part 1: Partners (11/12) Partner 2**

### **28. Do you have a third additional partner? \***

|  |  |
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|    | Yes |
|    | No |

**13. Part 1: Partners (2/12) Partner 3**

### **29. Name of project partner. \***

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### **30. Is the partner organisation registered on Companies House? \***

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| --- | --- |
|    | Yes |
|    | No |

**14. Part 1: Partners (3/12) Partner 3**

### **31. UK business registration number.The business registration number should be 8 characters long. This can be found on Companies House. \***

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**15. Part 1: Partners (4/12) Partner 3**

### **32. Alternative business record.If the partner organisation does not have a Companies House registration number, please provide the organisation's HMRC Unique Taxpayer Reference number. This should be ten digits long. Alternatively, please explain why this information cannot be provided at this time. \***

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**16. Part 1: Partners (5/12) Partner 3**

### **33. Project partner's full registered address.Businesses must be registered in England, Wales, Northern Ireland, or Scotland to be eligible.Please enter the address in the box below, excluding the country and postcode which are requested separately in the following questions. \***

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### **34. Country. \***

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|    | England |
|    | Scotland |
|    | Wales |
|    | Northern Ireland |

### **35. Postcode \***

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### **36. How many people are employed by the project partner?From the project partner's most recent annual accounts, can be based on an average from the last two reporting periods. \***

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### **37. Is this project partner acting economically in the project team?This means where a project partner is incurring costs. \***

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| --- | --- |
|    | Yes |
|    | No |

**The following questions relate to your partner.**

### **38. Are you in receipt of, or are you intending to apply for, any other funding provided under the same set of eligible costs as this competition?If the answer is "yes" this constitutes duplicate funding and is not eligible for grant award funding. \***

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|    | Yes |
|    | No |

### **39. Have you received other public sector funding in the last 3 years, or will you be receiving other public sector funding in the next 3 years (where you have applied and been successful)?If you answer "yes" to this question, you may be asked further questions at due diligence stage to ascertain whether your organisation will be in receipt of more than 325,000 Special Drawing Rights as defined in the EU-UK Trade and Cooperation Agreement or, in the case of projects subject to the Northern Ireland Protocol, more than the €200,000 de minimis threshold as defined in EU General Block Exemption Regulation; both sums are over a three year fiscal period. \***

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|    | Yes |
|    | No |

**17. Part 1: Partners (11/12) Partner 3**

### **40. Do you have a fourth additional partner? \***

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|    | Yes |
|    | No |

**18. Part 1: Partners (2/12) Partner 4**

### **41. Name of project partner. \***

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### **42. Is the partner organisation registered on Companies House? \***

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|    | Yes |
|    | No |

**19. Part 1: Partners (3/12) Partner 4**

### **43. UK business registration number.The business registration number should be 8 characters long. This can be found on Companies House. \***

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**20. Part 1: Partners (4/12) Partner 4**

### **44. Alternative business record.If the partner organisation does not have a Companies House registration number, please provide the organisation's HMRC Unique Taxpayer Reference number. This should be ten digits long. Alternatively, please explain why this information cannot be provided at this time. \***

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**21. Part 1: Partners (5/12) Partner 4**

### **45. Project partner's full registered address.Businesses must be registered in England, Wales, Northern Ireland, or Scotland to be eligible.Please enter the address in the box below, excluding the country and postcode which are requested separately in the following questions. \***

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### **46. Country. \***

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| --- | --- |
|    | England |
|    | Scotland |
|    | Wales |
|    | Northern Ireland |

### **47. Postcode \***

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### **48. How many people are employed by the project partner?From the project partner's most recent annual accounts, can be based on an average from the last two reporting periods. \***

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### **49. Is this project partner acting economically in the project team?This means where a project partner is incurring costs. \***

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|    | Yes |
|    | No |

**The following questions relate to your partner.**

### **50. Are you in receipt of, or are you intending to apply for, any other funding provided under the same set of eligible costs as this competition?If the answer is "yes" this constitutes duplicate funding and is not eligible for grant award funding. \***

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|    | Yes |
|    | No |

### **51. Have you received other public sector funding in the last 3 years, or will you be receiving other public sector funding in the next 3 years (where you have applied and been successful)?If you answer "yes" to this question, you may be asked further questions at due diligence stage to ascertain whether your organisation will be in receipt of more than 325,000 Special Drawing Rights as defined in the EU-UK Trade and Cooperation Agreement or, in the case of projects subject to the Northern Ireland Protocol, more than the €200,000 de minimis threshold as defined in EU General Block Exemption Regulation; both sums are over a three year fiscal period. \***

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|    | Yes |
|    | No |

**22. Part 1: Partners (11/12) Partner 4**

### **52. Do you have a fifth (and final) additional partner? \***

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|    | Yes |
|    | No |

**23. Part 1: Partners (2/12) Partner 5**

### **53. Name of project partner. \***

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### **54. Is the partner organisation registered on Companies House? \***

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|    | Yes |
|    | No |

**24. Part 1: Partners (3/12) Partner 5**

### **55. UK business registration number.The business registration number should be 8 characters long. This can be found on Companies House. \***

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**25. Part 1: Partners (4/12) Partner 5**

### **56. Alternative business record.If the partner organisation does not have a Companies House registration number, please provide the organisation's HMRC Unique Taxpayer Reference number. This should be ten digits long. Alternatively, please explain why this information cannot be provided at this time. \***

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**26. Part 1: Partners (5/12) Partner 5**

### **57. Project partner's full registered address.Businesses must be registered in England, Wales, Northern Ireland, or Scotland to be eligible.Please enter the address in the box below, excluding the country and postcode which are requested separately in the following questions. \***

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### **58. Country. \***

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| --- | --- |
|    | England |
|    | Scotland |
|    | Wales |
|    | Northern Ireland |

### **59. Postcode \***

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### **60. How many people are employed by the project partner?From the project partner's most recent annual accounts, can be based on an average from the last two reporting periods. \***

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### **61. Is this project partner acting economically in the project team?This means where a project partner is incurring costs. \***

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|    | Yes |
|    | No |

**The following questions relate to your partner.**

### **62. Are you in receipt of, or are you intending to apply for, any other funding provided under the same set of eligible costs as this competition?If the answer is "yes" this constitutes duplicate funding and is not eligible for grant award funding. \***

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|    | Yes |
|    | No |

### **63. Have you received other public sector funding in the last 3 years, or will you be receiving other public sector funding in the next 3 years (where you have applied and been successful)?If you answer "yes" to this question, you may be asked further questions at due diligence stage to ascertain whether your organisation will be in receipt of more than 325,000 Special Drawing Rights as defined in the EU-UK Trade and Cooperation Agreement or, in the case of projects subject to the Northern Ireland Protocol, more than the €200,000 de minimis threshold as defined in EU General Block Exemption Regulation; both sums are over a three year fiscal period. \***

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|    | Yes |
|    | No |

**27. Part 1: Partners (12/12)**

### **64. Have you signed, or will you sign, a collaboration agreement with the project partners?The lead applicant will be responsible for signing a Grant Funding Agreement with DESNZ. All members of a project team will be required to enter into a collaboration agreement before the project begins. \***

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|    | Yes |
|    | No |

**28. Part 2: Project Eligibility (1/11)**

### **65. Project name.Provide a short title summarising the proposal. This could reference the type of technology, the industrial process, or the overall outcome of the project. This may be used for publicity purposes. This should be the same name as used in the Applicant Details form. \***

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### **66. Is your proposal for a feasibility or engineering study?You must define the scope of your study according to one of these definitions.Feasibility studies: a feasibility study will investigate the technical, economic, and operational impacts of deploying a technology solution within the applicant's industrial process.Engineering studies: an engineering study is a detailed project plan that identifies specific technical and operational requirements, equivalent to a Front-End Engineering and Design (FEED) study. The final report must provide sufficient detail to enable your business to arrive at an investment decision.Feasibility and engineering studies cannot be aggregated into one application.Feasibility study proposals may include an options analysis provided all options are in the same industrial process on the same site. The option analysis must be contained within the same proposal. \***

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|    | Feasibility Study |
|    | Engineering Study |

### **67. What is the anticipated start date?This is the date when you intend to start work. We expect successful IETF projects to be notified of the outcome of the initial assessment stage in October 2024. We would expect to complete due diligence and to sign Grant Award Agreements by December 2024. Please ensure that your start date is not earlier than December 2024. Feasibility studies must start no later than 1 July 2025. \***

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### **68. What is the anticipated study completion date?This is the date when you intend to complete work. Studies must complete no later than 31 March 2028. \***

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**29. Part 2: Project Eligibility (2/11)**

### **69. Does your feasibility study proposal include option analysis?Feasibility study proposals may include an options analysis provided all options are in the same industrial process on the same site. The option analysis must be contained within the same proposal. \***

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|    | Yes |
|    | No |

**30. Part 2: Project Eligibility (3/11)**

### **70. Do all options have the same primary outcome (energy efficiency or decarbonisation impacts)?All options must lead to the same primary outcome (energy efficiency or decarbonisation). \***

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|    | Yes |
|    | No |

**31. Part 2: Project Eligibility (4/11)**

### **71. Is the intended outcome of the technology solution (or all options for Options Analysis) primarily energy efficiency or decarbonisation?Energy efficiency technologies should aim to reduce the energy consumed by industrial processes at site level, attributing benefits to both the bill savings and any associated emissions savings.Decarbonisation technologies will reduce the emissions produced by industrial processes at site level. While in some cases there may be an associated energy saving this is not the key driver for the proposal and energy bills may in fact increase. \***

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|    | Energy Efficiency |
|    | Decarbonisation |

**32. Part 2: Project Eligibility (5/11)**

### **72. Does your study scope include offsite infrastructure?The IETF supports study projects within the boundary of the lead applicant's site. However, feasibility study projects that are reliant on offsite infrastructure to enable the onsite project may additionally include offsite infrastructure within the overall study scope. The scope of offsite infrastructure may extend to 'bridging' infrastructure only, i.e. between the site boundary and the nearest offsite infrastructure connection. \***

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|    | Yes |
|    | No |

**33. Part 2: Project Eligibility (6/11)**

### **73. Please describe the scope and extent of the offsite bridging infrastructure included in your study.The scope of offsite infrastructure can extend to 'bridging' infrastructure only, i.e. infrastructure between the site boundary and the nearest offsite infrastructure connection such as a substation or cluster pipeline.Maximum word count: 300. \***

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**34. Part 2: Project Eligibility (7/11)**

### **74. Please provide a description of the study, including a description of each proposed option if you are pursuing an Options Analysis.Describe your proposed project. You should include information about:The nature of the industrial process and the problem to be solved Details of each proposed technology solution (option) The expected outcomes of each option including emissions savings or energy savings. Maximum word count: 600. \***

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**35. Part 2: Project Eligibility (8/11)**

### **75. Is this a CHP fuel switching project? \***

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|    | Yes |
|    | No |

**36. Part 2: Project Eligibility (9/11)**

### **76. Does the lead applicant or project team use at least 70% of both the end heat and power output? Or will they at project completion?Applications investigating eligible fuel switches for CHP plants will be considered in scope provided that at least 70% of both the heat output and electricity output produced by the CHP plant is used for an eligible process by the lead applicant or project partners. The lead applicant must in this case be an eligible end-user, and the CHP operator must be a collaborating partner on the project. \***

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|    | Yes |
|    | No |

**37. Part 2: Project Eligibility (10/11)**

### **77. Does your project contain elements of Non-Road Mobile Machinery?Non-Road Mobile Machinery must be necessary to, and a part of, the industrial process and located within the boundary of the eligible site. Please see Applicant Guidance Section 3 for more information. \***

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|    | Yes |
|    | No |

**38. Part 2: Project Eligibility (11/11)**

### **78. Is the Non-Road Mobile Machinery located within the boundary of your eligible site and will remain located at that site as part of your industrial process?The machinery must be located within the boundary of the eligible site. \***

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| --- | --- |
|    | Yes |
|    | No |

### **79. Please explain how the Non-Road Mobile Machinery elements of your proposal are necessary to, and a part of, your site's industrial process.Maximum word count: 150. \***

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**39. Part 3: Site Eligibility (1/1)**

### **80. Does your project involve multiple studies at different sites? We will permit an individual study to investigate multiple sites (up to a maximum of 5), provided these are all owned by the same business and the same type of technology solution is investigated. \***

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|    | Yes |
|    | No |

### **81. Please add details for each site.The SIC code should be 5 characters long and based on your assessment of the activity which is carried out at your site. In some cases, this may be different from your business SIC code where activities at site level are not reflected in your Companies House record. You can find a full list of SIC codes at https://www.gov.uk/government/publications/standard-industrial-classification-of-economic-activities-sic Sites must be located in England, Wales or Northern Ireland.Please enter the address in the box below, excluding the country and postcode which are requested separately in the following questions. \***

|  | Name of site | What SIC code most closely defines the activity at the site which will be the focus of the study? | What is the address of the site which will be the focus of the study? | Country | Postcode |
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### **82. The IETF supports studies that investigate possible technology solution(s), investment and adaptations within the boundary of the lead applicant's site. Please confirm your project meets these criteria and briefly explain how for each site.Your answer should include details of:How you have defined your business's site (e.g. the boundary within which work occurs) Details of any works that may be required beyond the boundary of the site. Maximum word count: 200. \***

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### **83. The IETF is targeted at existing sites and industrial processes. Please confirm your project meets these criteria and briefly explain how for each site.Your answer should include details of:How long the site has been established (years) How long the identified process has been carried out at the site for (years) Any changes in operations at the site which would occur during or following completion of the project. Maximum word count: 200. \***

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**40. Part 4: Technology Eligibility (1/15)**

### **84. Which technology(ies) best describes your technology solution options? If you are implementing an Options study you can select more than one option BUT all technology solutions in your option analysis must have the same primary outcome (energy efficiency or decarbonisation).Please select "other" if your technology solution(s) is not listed. \***

|  |  |
| --- | --- |
|    | Process optimisation |
|    | Equipment upgrades |
|    | Heat or energy recovery |
|    | Heat pump |
|    | Resource efficiency |
|    | CCUS |
|    | Carbon capture on existing bioenergy facility |
|    | Fuel switch: biomass |
|    | Fuel switch: biomass with carbon capture (BECCS) |
|    | Fuel switch: biogas/biomethane |
|    | Fuel switch: biogas/biomethane with carbon capture (BECCS) |
|    | Fuel switch: waste |
|    | Fuel switch: compress/liquid natural gas |
|    | Fuel switch: grid gas |
|    | Fuel switch: low carbon hydrogen |
|    | Fuel switch: electrification |
|    | Fuel switch: other |
|    | Other |

**41. Part 4: Technology Eligibility (2/15)**

### **85. Does your intended hydrogen supply comply with the Low Carbon Hydrogen Standard?The Low Carbon Hydrogen Standard sets a maximum threshold for the amount of greenhouse gas emissions allowed in the production process for hydrogen to be considered ‘low carbon hydrogen’. Projects that propose to fuel switch to hydrogen or hydrogen blends must use low carbon hydrogen: https://www.gov.uk/government/publications/uk-low-carbon-hydrogen-standard-emissions-reporting-and-sustainability-criteriaYour answer could include a description of the production methods associated with the source of hydrogen fuel. \***

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| --- | --- |
|    | Yes |
|    | No |

**42. Part 4: Technology Eligibility (3/15)**

### **86. If 'Other' or 'Fuel Switch: Other', please specify.Maximum word count: 100. \***

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**43. Part 4: Technology Eligibility (4/15)**

### **87. What is the Technology Readiness Level (TRL) of the proposed technology solution(s)? GuidanceTRLs are used to describe the level of maturity of the technology. You must choose one value per project from the following range:- Basic principle observed- Technology concept formulated- Experimental proof of concept- Technology validated in lab- Technology validated in relevant environment- Technology demonstrated in relevant environment- Prototype demonstration in operational environment- Technology qualified through test and demonstration- Technology proven in operational environmentIf you are implementing an Options study:If options have different TRLs please enter the lowest applicable value. If components of the solution have different TRLs please enter the lowest applicable value. To be eligible for IETF support, your technology solution needs to have reached at least TRL 7. \***

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|    | 6 |
|    | 7 |
|    | 8 |
|    | 9 or above |

### **88. Please describe how your proposed technology solution(s) have achieved the TRL selected.For example provide details of where, when and how the technology was demonstrated in an operational environment (this may be within or outside of the UK).You may provide links to relevant websites or one attachment of documentation.Maximum word count: 400. \***

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### **89. If you wish, you may upload one piece of documentation to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**44. Part 4: Technology Eligibility (5/15)**

### **90. We require studies to investigate a defined technology solution, rather than preliminary work to consider the range of solutions available. Please confirm your project meets this criterion and briefly explain how.Your answer should:Confirm that only one defined technology solution will be investigated Explain briefly how this was identified as an option for further study. Maximum word count: 200. \***

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**45. Part 4: Technology Eligibility (6/15)**

### **91. Does the site have access to the national or local gas grid? Or will it have access once the project is completed? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

### **92. Does the site have access to the electricity grid, local smart grid, micro grid or onsite renewable generation? Or will it have access once the project is completed? \***

|  |  |
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|    | Yes |
|    | No |

**46. Part 4: Technology Eligibility (7/15)**

### **93. Would the aim of the study be to utilise or transport and store the captured CO2 if this project progressed to deployment? - If your aim is to either utilise the captured CO2 in onsite processes, or transport it to another business for them to utilise in their processes, then select option 1.- If your aim is to capture the CO2 and then transport it to a permanent storage facility then select option 2.- If your aim is to not utilise or store the captured CO2 then select option 3. \***

|  |  |
| --- | --- |
|    | 1. Carbon capture and utilisation (CCU) |
|    | 2. Carbon capture with transportation and storage (CCS) |
|    | 3. Neither utilise nor store the captured CO2 |

### **94. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**47. Part 4: Technology Eligibility (8/15)**

### **95. Where a study is investigating a potential fuel switch, does this involve switching to a fuel that has a lower carbon intensity than the gas grid? Refer to HMT Green Book emission intensity figures for natural gas sourced from the gas grid. \***

|  |  |
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|    | Yes |
|    | No |

### **96. Where a study is investigating a potential fuel switch, would the project involve a switch away from a fuel with a higher emissions intensity? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

### **97. If you wish, you may upload information to support your answer.Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**48. Part 4: Technology Eligibility (9/15)**

### **98. Is the study investigating the potential for a fuel switch to compressed or liquefied natural gas at a site without access to the gas grid? \***

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|    | Yes |
|    | No |

### **99. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**49. Part 4: Technology Eligibility (10/15)**

### **100. Where a study is investigating a potential fuel switch, for combustion equipment, would the scale of the subsequent deployment project be equal to or more than 1MWth input? \***

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|    | Yes |
|    | No |

### **101. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**50. Part 4: Technology Eligibility (11/15)**

### **102. Where a study is investigating a potential fuel switch to biomass, would the biomass be utilised in an existing heat use or where it is substituting energy previously supplied through other means? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |
|    | N/A |

### **103. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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### **104. Where a study is investigating a potential fuel switch to biomass, would the biomass project be used to heat or power an industrial process where the operational temperature (of the industrial process or processes being heated) is equal to or more than 240 degrees Celsius? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |
|    | N/A |

### **105. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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### **106. Where a study is investigating a potential fuel switch to biomass, will it explore conversion of biomass to biofuels for later use or an upgrade to biomethane for injection into the gas grid? The study should not be using grant funding to investigate any process related to the conversion of any portion of biomass feedstock into other fuels such as biomethane. \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

### **107. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**51. Part 4: Technology Eligibility (12/15)**

### **108. Where a study is investigating a potential fuel switch to biogas or biomethane, would the biogas or biomethane be utilised in an existing heat use or where it is substituting energy previously supplied through other means? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |
|    | N/A |

### **109. If you wish, you may upload information to support your answer.Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**52. Part 4: Technology Eligibility (13/15)**

### **110. Where a study is investigating a potential fuel switch to waste fuel, would the waste fuel be sourced from the lead applicant's site or process(es)? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |
|    | N/A |

### **111. If you wish, you may upload information to support your answer. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**53. Part 4: Technology Eligibility (14/15)**

### **112. Are you including a CHP fuel switching project? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

**54. Part 4: Technology Eligibility (15/15)**

### **113. Provide an explanation and any documentation to evidence that at least 70% of the heat and power output of the CHP plant is or will be utilised by an eligible industrial process at project completion. The plant needs to be where the study is taking place.Your answer could identify:the capacity of the CHP plant end user(s) including their SIC code the type of industrial activity taking place at the site of the end user(s) the amount of heat and power used by the end users in relation to the total output of the CHP plant. Maximum word count: 200. \***

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### **114. You should provide documentation to evidence the above where possible. Supporting evidence could include, but is not limited to, documentation such as contracts or invoices for energy use. Where these eligible industrial sites are not currently using the heat and power from the CHP plant we could accept provisional agreements/contracts.**

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**55. Part 5: Additional Information (1/3)**

### **115. Is the installation or site where the project is taking place and the associated energy usage covered by a Climate Change Agreement? \***

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|    | Yes |
|    | No |

### **116. Is the installation or site where the project is taking place and the associated energy usage covered by the Energy Intensive Industries (EII) Compensation Scheme? \***

|  |  |
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|    | Yes |
|    | No |

### **117. Is the installation or site where the project is taking place and the associated energy usage covered by the UK Emissions trading Scheme? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

### **118. Is this a re-application? If you have applied for an IETF grant for this proposal before but were unsuccessful, you may apply again. There is no limit on re-applications but, if applicable, you are expected to take on board assessor feedback to improve your application. \***

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| --- | --- |
|    | Yes |
|    | No |

**56. Part 5: Additional Information (2/3)**

### **119. Have you made changes to this application since the last submission? Please select "yes" if the scope or purpose of your application has altered materially since your previous application.Please select "no" if the contents are unchanged. \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

### **120. Have previous assessor comments been considered? \***

|  |  |
| --- | --- |
|    | Yes |
|    | No |

**57. Part 5: Additional Information (3/3)**

### **121. If applicable explain briefly how you have adapted your application based on the feedback you received.If not applicable, enter "N/A".Maximum word count: 200. \***

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**58. Part 5: Finance Details (1/4)**

### **122. Please confirm whether your proposal or proposal is for a feasibility or engineering study(ies)?Your answer to this question will determine which finance form you must download, complete and upload. Please note that, if aggregating proposals, you cannot aggregate feasibility and engineering studies into one application. \***

|  |  |
| --- | --- |
|    | Feasibility study |
|    | Engineering study |

**59. Part 5: Finance Details (2/4)**

### **123. Please download and complete the finance form (https://assets.publishing.service.gov.uk/media/65b261aaf2718c000dfb1d6b/ietf-phase-3-spring-2024-feasibility-study-finance-form.xlsx). Please upload the completed form here.You must use v1.0 (Jan 2024) of the finance form. The version number can be found in the "Summary" tab. Changes have been made between application windows and we cannot accept previous versions. Uploading a previous version will result in your application failing the eligibility screening process. Guidance can be found in the form itself.\***

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**60. Part 5: Finance Details (3/4)**

### **124. Please download and complete the finance form (https://assets.publishing.service.gov.uk/media/65b261dc1702b1000dcb12ce/ietf-phase-3-spring-2024-engineering-study-finance-form.xlsx). Please upload the completed form here.You must use v1.0 (Jan 2024) of the finance form. The version number can be found in the "Summary" tab. Changes have been made between application windows and we cannot accept previous versions. Uploading a previous version will result in your application failing the eligibility screening process. Guidance can be found in the form itself.\***

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**61. Part 5: Finance Details (4/4)**

### **125. Please state below the grant amount you are requesting for each proposal in this application (in pounds sterling). You will be asked to state the grant amount you are requesting in different places throughout this application form, including in the finance form and the project benefits calculator (deployment only). Please ensure that these figures match the amount stated here. The amount you enter here will be used as the correct amount should there be any differences. \***

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### **126. I confirm that the proposal would not have gone ahead in its proposed form without IETF funding. If your proposal would go ahead in its proposed form without this funding, it will be ineligible and will not be assessed. \***

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|    | I confirm the proposal would not have gone ahead in its proposed form without IETF funding |

### **127. I confirm that the eligible costs applied for are the minimum eligible costs necessary to complete this proposal. \***

|  |  |
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|    | Confirm |

### **128. I confirm that I understand that as lead applicant my business will be responsible for claiming grant contributions against the eligible costs of this proposal. As lead applicant, I also confirm that my organisation will directly incur a share of the eligible costs. This approach is necessary to satisfy DESNZ' requirement that the lead applicant is financially invested in the project. This provides DESNZ Ministers reassurance that successful businesses plan to be involved in the development of the application, leading to a successful study or project being deployed at the applicant's site. \***

|  |  |
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|    | Confirm |

**62. Part 7: Assessment (1/7)**

**These questions are worth 20% of the marks.**

 **In this section you are asked to explain the objective of this study alongside resourcing requirements and delivery plan.**

 **You will be scored based on the clarity and coverage of information across these topics including:**

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| The appropriateness of the project team's skills and experience |
| The project timeline and the identified work packages |
| The strength of the team with well suited experience for their roles on the project |
| Project plan with suitable timescales given to each task |
| Identification of the key risks and their mitigation plan. |

 **Higher marks will be awarded to applicants that demonstrate:**

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| They are well placed to carry out the project and have appropriate skills and experience |
| There are clearly defined objectives and rationale for the project |
| Project roles are well defined and there is strong evidence that the consortium will work well (where relevant) |
| The project plan is clear and commensurate with the work packages described |
| The key risks and uncertainties of the project are considered and mitigated |
| The study has high likelihood of successful delivery. |

 **Where subcontractors are being used, applicants should explain their roles and expertise, why their work could not be covered by internal resource, why the chosen subcontractor has been selected, and how their skills and expertise will ensure the successful completion of the project.**

### **129. Please: Give an overview of the objective of this study. Describe the project delivery plan using a Gantt chart, including work packages and deliverables (see question below) Give details of any partners and sub-contractors who you will need to work with to carry out the study successfully and how they will be managed Describe the roles, skills and experience of key members of the team (business staff and contractors) plus project management strategy Describe the study risks, evaluate the size of the risks, the likelihoods and associated mitigation actions (technical, commercial, project etc.). Maximum word count: 1000. \***

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### **130. To support your answer, please upload, in a single appendix, a project plan (Gantt chart) and risk register.Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length. \***

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### **131. Does your application include an Options study? \***

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|    | Yes |
|    | No |

**63. Part 7: Assessment (2/7)**

**These questions are worth 20% of the marks.**

**In this section you are asked what potential solution to improve the energy efficiency or reduce the greenhouse gas emissions of your industrial process has been identified.**

**This section seeks for you, the applicant, to describe the industrial process and potential technology solutions that you would consider as part of the study. It assesses the appropriateness of the study scope and the justification for the options considered. The study should seek to identify the correct technology to progress toward an investment decision.**

**You will be assessed and scored based on the quality and clarity of the stated outputs, the appropriateness of these to enable next stage action as well as the strength of the justification for the technology choice and its technical feasibility for such a planned deployment.**

**Higher marks will be awarded to applications where the technical scope of the project is clear with well-defined outputs linked to a broader deployment plan. Strong evidence should be given that the chosen technology is appropriate for its application and is technically feasible with a clear route to deployment.**

### **132. Please:Give an overview of the technology options to be explored Describe or explain the justification for choosing these technology options and the evidence of the concepts being scientifically or technically feasible Describe or explain the current development status of the technology options, referring to the stated TRL Describe or explain the nature of the outputs you expect from the study, such as a feasibility study report clearly outlining the feasibility of each option Describe how you intend to select a single option to carry forward including what selection criteria will be used Describe or explain how you would deploy each technology options, are there any other barriers to deployment of the technology that must be overcome? What internal processes would have to be overcome? Are there any potential negative impacts that are likely to occur if the technology were to be deployed in the future? Guidance for biomass, biogas, biomethane, compressed or liquefied natural gas, or waste fuel switching projects:For biomass, biogas, biomethane, compressed or liquefied natural gas fuel switch projects, the answer should include a justification of why you chose the fuel over other decarbonisation fuel switching options in scope of IETF funding, such as grid gas or electrification. Answers could include distance to gas grid distribution infrastructure, insufficient local electricity grid capacity, operational characteristics of the industrial process, previous optioneering studies etc. For waste fuel switching projects the answer should include a justification of why you chose the fuel over other decarbonisation fuel switching options in scope of IETF funding, and why this is the best use of the waste product, including whether there are better alternatives such as waste minimisation. Maximum word count: 1000. \***

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### **133. You are strongly encouraged to upload supporting evidence e.g. demonstrating where the chosen technology(ies) has been deployed in a similar or comparable operational environment. Please see guidance for other examples. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**64. Part 7: Assessment (3/7)**

**These questions are worth 20% of the marks.**

**In this section you are asked what potential solution to improve the energy efficiency or reduce the greenhouse gas emissions of your industrial process has been identified.**

**This section seeks for you, the applicant, to describe the technical solution and ultimate deployment project you would undertake following the study. It assesses feasibility of the subsequent deployment of the technology following the study by seeking evidence and justification for its selection. The study should not be an options analysis that is seeking the correct technology but a piece of work to progress the project toward the next stage of deployment. Broadly speaking this is technical feasibility, engineering design, deployment. The outputs of the study should demonstrate how they enable the project to move to an investment decision.**

**You will be assessed and scored based on the quality and clarity of the stated outputs, the appropriateness of these to enable next stage action as well as the strength of the justification for the technology choice and its technical feasibility for such a planned deployment.**

**Higher marks will be awarded to applications where the technical scope of the project is clear with well-defined outputs linked to a broader deployment plan. Strong evidence should be given that the chosen technology is appropriate for its application and is technically feasible with a clear route to deployment.**

### **134. Please:Give an overview of the technology to be explored Describe or explain the justification for choosing this technology and the evidence of the concept being scientifically or technically feasible Describe or explain the current development status of the technology, referring to its stated TRL Describe or explain the nature of the outputs you expect from the study, such as a feasibility study report, an engineering design (for example, front-end engineering design), a report producing engineering plans (for example, approved for design standard) Describe or explain how you will deploy the technology, are there any other barriers to deployment of the technology that must be overcome? What internal processes would have to be overcome? Are there any potential negative impacts that are likely to occur if the technology were to be deployed in the future? Guidance for biomass, biogas, biomethane, compressed or liquefied natural gas, or waste fuel switching projects:For biomass, biogas, biomethane, compressed or liquefied natural gas fuel switch projects, the answer should include a justification of why you chose the fuel over other decarbonisation fuel switching options in scope of IETF funding, such as grid gas or electrification. Answers could include distance to gas grid distribution infrastructure, insufficient local electricity grid capacity, operational characteristics of the industrial process, previous optioneering studies etc. For waste fuel switching projects the answer should include a justification of why you chose the fuel over other decarbonisation fuel switching options in scope of IETF funding, and why this is the best use of the waste product, including whether there are better alternatives such as waste minimisation. Maximum word count: 1000. \***

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### **135. You are strongly encouraged to upload supporting evidence e.g. demonstrating where the chosen technology(ies) has been deployed in a similar or comparable operational environment. Please see guidance for other examples. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**65. Part 7: Assessment (4/7)**

**These questions are worth 25% of the marks.**

 **In this section you are asked to describe and justify the anticipated benefits of the project or projects explored through the study, including predicted carbon savings and/or energy savings. This section is assessing the potential emission savings and/or energy savings from the project when deployed.**

 **You will be scored based on the quality and credibility of the emissions reduction justification and/or energy saving reduction, including realism of assumptions and acceptability of arguments used. You must provide predicted emissions savings in tCO2e, and expected changes to energy use in MWh. If the project would save energy, please also include the predicted fuel bill savings in £. Estimates must be in relation to a counterfactual scenario (e.g. what would happen if the identified project were not deployed). If your level of output would change as a result of the project, please also provide details of this and how it has informed the estimates. We understand that until the study is complete there will be uncertainty around these estimates. If possible, please include a range around a central estimate and identify any key assumptions or data sources.**

 **Higher marks will be awarded to applications where the stated carbon and/or energy savings are credible with strong justification and evidence to support assumptions and calculations used. When deployed, the technology should achieve the carbon and/or energy savings stated, which will improve the performance of the site, sector, or process identified beyond its "do nothing" trajectory. The technology has a clear alignment with the net-zero by 2050 commitment and, whether the study is successful or unsuccessful, there will have been a positive gain in knowledge around the opportunities and limitations of the chosen technology in the sector/process identified.**

### **136. Please:Describe or explain what potential there is that realistic carbon savings and/or energy savings will be achieved by implementing the project explored through this study Describe or explain why this technology solution or solutions were chosen and why other options were discounted Describe or explain how the solution is aligned with the government's commitment to reach net zero by 2050 and your own decarbonisation plans Describe or explain how this project goes above and beyond your existing energy and carbon reduction commitments (such as Climate Change Agreements). Maximum word count: 800. \***

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### **137. You are strongly encouraged to upload supporting evidence e.g. a case study of a similar project and evidence of carbon saving at another site. Please see guidance for other examples. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**66. Part 7: Assessment (5/7)**

**These questions are worth 10% of the marks.**

 **Please fill in the finance form, if you have not already done so, before answering these questions. Please ensure information you provide here is consistent with the information provided in the finance form.**

 **In this section you are asked to add additional justification for your project costs and say how you have minimised them to ensure that your proposal provides the best possible value for money for the taxpayer.**

 **We are looking to see that you, the applicant, have a clear grasp of the costs of the project including supporting evidence to justify the stated costs. We also want to ensure that you are claiming an amount of grant that represents value for the public purse. You will be scored based on the strength of the evidence and justification for the stated costs and the need for the amount of grant support requested. We would expect to see more detail for larger projects and one-off costs. Where subcontractors are used we would expect you to include a breakdown of the activities and costs that the subcontractor will be undertaking, or as much detail as you are able to at the current time, as well as details of any tender process you have or expect to carry out. If, for any reason, it is possible to recover the VAT on certain costs (for example, if a project partner is not VAT registered) then you will need to explain this in the evidence that you submit.**

 **Higher marks will be awarded to applications where the project costs are entirely appropriate and represent excellent value for money and the partners have a clear idea of how they will finance their contribution, and the balance of costs and grants between partners and the use of subcontractors is well justified and reasonable for the proposed project.**

### **138. Please describe how you have arrived at the cost estimates provided in the finance form. This should include as a minimum:Details on whether you have secured quotes, or how you have otherwise ensured the estimates are reasonable, particularly in cases where one-off material and capital costs exceed £10,000 If you are using subcontractors, a justification and a breakdown of how costs have been estimated for each subcontractor A description of the steps you have taken to minimise costs and ensure that this project represents value for money for the taxpayer. A good answer will present costs clearly with justification for larger items and supporting information to support values for subcontractors and large capital items. The overheads should be calculated and presented clearly, and justification should be provided for costs wherever possible.Maximum word count: 1000. \***

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### **139. You must submit supporting evidence e.g. quotations from suppliers or contractors, letters of intent, or an explanation of the assumptions used for internal estimates of resourcing, capital and material costs. If your project includes subcontractor costs, please upload a clear breakdown. Supporting evidence and information should be limited to information which is required to support, give context to, clarify or justify answers given. Where possible, it should be clearly cross-referenced in the answers for ease. Supporting evidence and information will only form part of the assessment if it is clear, relevant and of reasonable length.**

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**67. Part 7: Assessment (6/7)**

**This question is worth 15% of the marks.**

 **In this section you are asked what would have happened without IETF money. This section seeks justification for the use of public money to support the study. You will be scored based on the strength of that justification.**

 **Higher marks will be awarded to applications where:**

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| There is a compelling case for why public funding is required and the positive difference this funding will make |
| Alternative sources of support are described with an explanation of why they are discounted or used in conjunction with the grant funding |
| It is likely that a very high proportion of the study would not have gone ahead without IETF support. |

### **140. Please:Describe or explain the extent to which any of the study would have still occurred without IETF funding (e.g. would it not have gone ahead at all, or would it still have gone ahead but at a smaller scale?) Describe or explain why some or none of the study would have gone ahead without public funding Describe or explain why you are not able to wholly fund the study from your own resources or other forms of private-sector funding (such as loans). Maximum word count: 600. \***

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**68. Part 7: Assessment (7/7)**

**These questions are worth 10% of the marks.**

 **In this section you are asked to describe the extent to which the technology to be explored though this study could be adopted by others in the sector or wider sectors.**

 **This section seeks to understand how the project fits into the broader industrial decarbonisation agenda. A technology that is repeatable and scalable across different industries and locations will have more value for industry. It will be scored based on the description of how this project could be repeated.**

 **Higher marks will be given where a clear and strong argument is given for replicability with good consideration of other sectors and how learnings from this project will be disseminated, and the argument is justified with supporting evidence.**

### **141. Please:Describe or explain how the study could be replicated by others in the sector Describe or explain how the technology could be adopted in other sectors Describe or explain any measures you intend to take to encourage the project to be replicated outside your organisation Describe or explain how the results of the study will be disseminated to others. Maximum word count: 600. \***

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**69. Part 11: Declarations (1/1)**

### **142. I confirm I have read the competition guidance and have completed all parts of the application form including additional information required to be uploaded.It is recommended that you read the guidance before applying to maximise your chance of success.You can find the guidance here (https://www.gov.uk/government/publications/industrial-energy-transformation-fund-ietf-phase-3-spring-2024). \***

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|    | I confirm |

### **143. I confirm that all the information I have provided in this form is correct to the best of my knowledge. \***

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|    | I confirm |

**70. Disqualification Page**

Based on the answer(s) provided, you do not qualify for IETF-supported funding. Please check the [Applicant Guidance](https://www.gov.uk/government/publications/industrial-energy-transformation-fund-ietf-phase-3-spring-2024) to determine whether you are within scope of IETF funding. If you believe this is in error:

Return to the previous page to check whether you have provided a representative response; Failing the above, e-mail the IETF team at IETF@energysecurity.gov.uk with your query, providing the track, question, and page which have determined your disqualification from IETF funding.

If you are not within scope of IETF funding but would like to learn more about alternative Government funding opportunities, please go to <https://www.find-government-grants.service.gov.uk/>.

The following question is designed to help us develop future funding opportunities. If you would like to contribute to this goal, please answer the following question.

### **144. Please provide detail of your business and proposed project, the technology/technologies you were intending to fund, and any other information you think relevant.**

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**71. End**

Thank you for completing this proposal application, please now submit this form. Your responses will be e-mailed to you using the lead applicant's e-mail. Please check your junk folder if you have not received your responses. If you have another proposal, please complete an additional application form.

If you have finished all proposals, please submit this form then complete the IETF Phase 3 Feedback Survey form provided to you in the invitation email. You will also be redirected to the feedback form automatically after 15 seconds following submission.