4th of June 2026

Dear Sir/Madam,

Invitation to Tender for the Pre-construction baseline uncertainty method for energy yield assessments project for the Carbon Trust's OWA Programme

You are invited to submit a Tender for the Pre-construction baseline uncertainty method for energy yield assessments project (the "PLUME project" or "Project") which is part of the Offshore Wind Accelerator (OWA) programme. The key objective of the Project is to establish a pre-construction Energy Yield Assessment (EYA) Uncertainty Baseline based on representative offshore wind farm project cases that the industry can use to compare with their EYA uncertainties. This uncertainty baseline ensures that any future uncertainty improvement claims are credible, as they are all compared against the same baseline uncertainty.

The Invitation to Tender (ITT) consists of the following documents:

- Description of Tender (this document);
- OWA Stage IV Contractors' Conditions;
- Tender Certificate (Word template);
- Bid Price Calculation Sheet (Excel template);
- Clarification Document (if applicable[1]);
- Project Closeout Form (for information purposes only – no need to complete now); and

Unless informed to the contrary, tenders and communications shall be sent by e-mail to the following e-mail address: maria.gonzalez-martin@carbontrust.com

Tenders must be submitted before 15th of July 2026 16:00 (BST). Any tenders received after this date and time will be deemed non-compliant.

Your Tender must consist of the following, the contents of which are described further below:

- Main Bid Document (pdf) – template not provided;
- Signed Tender Certificate (pdf) – template provided; and
- Bid Price Calculation Sheet (xls) – template provided.

The timeline of this procurement process is as follows:

Deadline for clarification questions	12th of June 2026 13:00 (BST)
Clarification Document published[1]	19th of June 2026
Submission of full Tender	15th of July 2026 16:00 (BST)
Bidder interviews	W/c 10th of August and 17th of August 2026
Successful Contractor announcement	W/c 31st of August 2026
Envisaged Contract award date	W/c 14th of September 2026

[1] A Clarification Document will not be published if no clarification questions are received in relation to this ITT.

Please e-mail any clarification questions, including questions about the timing of this ITT, to maria.gonzalez-martin@carbontrust.com any time before 12th of June 2026 13:00 (BST). The complete set of clarification questions and all answers to clarification questions will be published in the Clarification Document on our website by 19th of June 2026 and will hence be visible to all potential Bidders: https://www.carbontrust.com/news-and-events/tenders

For information about the OWA programme, please see the Carbon Trust's website: https://www.carbontrust.com/our-projects/offshore-wind-accelerator-owa

We look forward to receiving your Tender.

Yours sincerely,

…….
Maria Gonzalez Martin
For and on behalf of **THE CARBON TRUST**

THE CARBON TRUST OFFSHORE WIND ACCELERATOR

Invitation to Tender for the "Pre-construction baseline uncertainty method for energy yield assessments" Project

Description of Tender

Contents

Contents

IMPORTANT INFORMATION FOR BIDDERS

Publishing

Neither this document, nor any part of it nor any other information supplied in connection with it may, except with the prior written consent of the Carbon Trust, be republished, reproduced, copied, distributed or disclosed to any person for any purpose other than consideration by the recipient of whether or not to submit a Tender.

Tender evaluation

The received tenders will be evaluated by the Carbon Trust and the OWA Partners against the criteria provided in section 7 and the Bidder authorises the Carbon Trust to share its submitted Tender with the OWA Partners for this purpose. A shortlist of Bidders will be created and invited for interview. Carbon Trust will do a vetting of the shortlisted bidders. Carbon Trust may request shortlisted bidders to fill-in a Due Diligence Questionnaire to supply additional information prior to being invited for an interview.

Contracting

Bidders should note that the Scope of Work contained in section 4 of this document does not constitute an offer to contract with the Carbon Trust. It only represents a definition of specific requirements and an invitation to submit a Tender addressing these requirements.

Issuance of this Invitation to Tender and the subsequent receipt and evaluation of the tenders by the Carbon Trust does not commit the Carbon Trust to enter into a Contract with any Bidder.

Should Your Tender be successful, a Final Scope of Work that builds upon the Scope of Work contained in section 4 of this document and Your Approach to Work will be mutually agreed between You and the Carbon Trust. Once the Final Scope of Work is agreed, Your offer will be formally accepted by the Carbon Trust issuing an Award Letter, the Final Scope of Work, the OWA Stage IV Contractors' Conditions, and any clarifications agreed in writing. The Award Letter, the Final Scope of Work, the OWA Stage IV Contractors' Conditions, and any clarifications agreed in writing will establish the Contract for the Pre-construction baseline uncertainty method for energy yield assessments project (the "**Contract**") between You and the Carbon Trust. With the exception of any minor amendments to the OWA Stage IV Contractors' Conditions which may be requested by the Bidder, the submission of a Tender shall constitute unqualified acceptance of the OWA Stage IV Contractors' Conditions. In the event that minor amendments to the OWA Stage IV Contractors' Conditions are requested, such amendments must be clearly stated and the exact alternative wording must be provided in Annex A of the Tender Certificate. Please note that it is at the sole discretion of the Carbon Trust to accept any of the proposed amendments and that the Carbon Trust reserves the right to require the provision of further information in relation to any such request. No minor changes other than those contained in Annex A of the Tender Certificate at the time of submitting the Tender will be considered. No material changes will be considered at any time.

Mechanics of the Tender process

Bidders should note that:

- it is at the discretion of the Carbon Trust whether to accept any non-compliant Tender or whether to reject any non-compliant tenders without progressing such tenders through the evaluation phase;

- the Carbon Trust reserves the right not to accept the lowest priced Tender or any Tender whatsoever;
- the Carbon Trust reserves the right to accept more than one Tender;
- unless a Bidder makes a formal statement to the contrary, the Carbon Trust reserves the right to accept any part of a Bidder's Tender without accepting the remainder;
- formal notification that a tender has been successful will be communicated in writing by the Carbon Trust;
- the costs of tendering are the full responsibility of the Bidder; and
- the pricing set by Bidders shall be valid for a minimum of 90 days.

Bids may be submitted by individuals, companies, organisations or consortia.

Bidders should be aware that dates referred to in this Invitation to Tender may be subject to change where this is necessary in the interests of the Project (such changes will be notified in advance).

The Tender Certificate, Main Bid Document and any correspondence must be written in English. This Invitation to Tender, the Contract, its formation, interpretation and performance is subject to and in accordance with the law of England and Wales.

Conflicts of interest

Bidders should be free of any commercial interests, partnership arrangements or contracts underway or other matters which may present a conflict or potential conflict of interest in respect of the provision of these services. As set out in section 3, if a Bidder thinks that it may have any conflict or potential conflict of interest, the Bidder shall describe the details of this conflict and provide details of whether and how it would propose to manage such a conflict in a satisfactory and robust manner in Annex B of the Tender Certificate. The Carbon Trust reserves the right to require the provision of further information in relation to any conflict or potential conflict of interest.

Disclaimer

The information contained in this Description of Tender document and in any documents or information it refers to or incorporates (the "**Disclosed Information**") has been prepared to assist interested parties in deciding whether to submit a Tender. The Disclosed Information is not a recommendation by the Carbon Trust. It does not purport to be all inclusive or include all the information that a Bidder may require.

Neither the Carbon Trust nor any of its directors, employees, agents or advisers makes any representation or warranty (express or implied) as to the accuracy, reasonableness or completeness of the Disclosed Information. All such persons or entities expressly disclaim any and all liability (other than in respect of fraudulent misrepresentation) based on or relating to the Disclosed Information or any subsequent communication. The Bidder should conduct its own due diligence and seek its own professional, legal, financial and other advice as appropriate. The only information which will have any legal effect and/or upon which any person may rely will be such information (if any) as has been specifically and expressly represented and/or warranted in writing to the successful Bidder in any written contract that may be entered into with the Carbon Trust.

1. Introduction to the Offshore Wind Accelerator

1.1 The Offshore Wind Accelerator ("**OWA**") is an industry-driven collaborative research, development and demonstration programme which was initially launched by the Carbon Trust in 2008 in collaboration with five offshore wind developers. The programme has since expanded during OWA Stages I, II, III and IV to include currently nine offshore wind developers from various countries within the European Economic Area (the "**OWA Partners**"). At the time of issue of this Invitation to Tender the OWA Partners are: SSE Renewables Developments (UK) Limited, Ørsted Wind Power A/S, RWE Offshore Wind GmbH, ScottishPower Renewables (UK) Limited, Equinor ASA, Vattenfall Vindkraft A/S, EnBW Energie Baden-Württemberg AG, Shell Global Solutions International B.V., TotalEnergies OneTech and bp Low Carbon Development Company Limited.

1.2 OWA Stage IV aims to continue the cost reduction of offshore wind to make it cost competitive with other sources of energy generation, overcome market barriers, develop industry best practice, trigger the development of new industry standards and support the international expansion of offshore wind.

1.3 Research under the OWA currently falls into five research areas: Cables, Electricals, Foundations, Logistics and O&M, and Energy Yield & Performance. Research, development and demonstration projects are carried out in each of the five research areas to address technology challenges. This Invitation to Tender is related to the OWA research area Yield and Performance.

1.4 Each of the five research areas is managed by the Carbon Trust and governed by a Technical Working Group ("**TWG**") consisting of technical experts appointed by the OWA Partners. The TWG Yield and Performance will supervise the Project, provide technical direction and guidance to the Contractor (where needed) and review the Project Deliverables, findings and other outcomes.

1.5 Please note, the term "Contractor", where used within this document, refers only to the successful Bidder or, in the event that the Contract is awarded to a consortium, the successful Bidders.

2. Background and objective of the PLUME project

2.1 The OWA TWG Yield and Performance would like to document and conduct an in-depth assessment of the state-of-the-art pre-construction Energy Yield Assessment (EYA) uncertainty methods and associated assumptions used by industry, along with emerging ones, that will constitute the basis for establishing a pre-construction EYA uncertainty baseline from which future uncertainty improvements will be quantified.

2.2 Pre-construction EYA uncertainty methods for offshore wind farms vary across organisations and often rely on implicit assumptions and expert judgement, making it difficult to compare results, track improvement, or publish credible sector-wide progress. With methods evolving (including differences between time-series and statistical approaches), the industry needs a clearly documented "starting point" or *baseline* that reflects both common practice and current best available techniques. This would enable future changes to be assessed transparently and consistently.

Related work includes established standards and recent industry research on EYA uncertainty contributors, such as WindEurope CREYAP 2021 and the ongoing development of the IEC 61400-15-2 standard, whose goal is to present a standardised framework for the quantification of uncertainties associated with EYA. Other published methods for measurement uncertainty, extrapolation, long-term correction, and technical losses should be recognised throughout this project. However, to date, the industry lacks a consolidated and up-to-date industry-representative view of how uncertainty categories are implemented in practice (including the assumptions and methods used for each uncertainty contributor).

Primarily, the PLUME project aims to establish the pre-construction EYA Uncertainty Baseline from which future improvements obtained within the Offshore Wind Accelerator (OWA) programme in uncertainty will be quantified. This baseline should be developed using a representative range of offshore wind project characteristics. A representative example offshore wind project may then be used to demonstrate and apply the uncertainty framework in a consistent manner, which the industry can use to compare its EYA uncertainties.

This uncertainty baseline provides a clear picture of the current state of the art and any immediate improvements that can be made, and ensures that any future uncertainty improvement claims are credible, as they are all compared against the same baseline uncertainty.

2.3 The main objectives of this work are to:

- Review current uncertainty quantification methods, categories and assumptions to represent the 2026 state-of-the-art for wind resource, including scenarios with available measurements, incomplete or erroneous measurement datasets and relying on modelled data only cases, as well as for gross yield and technical losses.
- Review current uncertainty propagation/combination methods to represent the 2026 state-of-the-art.

- Assess and review emerging academic methods relevant to EYA uncertainty, or its individual components, for both quantification and propagation with a view to identifying practical improvements that can be incorporated into existing workflows.
- Clarify how uncertainty treatment differs between time-series and statistical approaches.
- Quantify total EYA uncertainty to establish a 2026 EYA uncertainty baseline, drawing on a representative evidence base and its application to one or more representative offshore wind project examples.
- Assess which uncertainty contributors have formal, standardised methodologies and where approaches rely on assumptions/expert judgement.
- Define one or more representative example 1GW offshore wind farm project cases (with large turbines representative of a 2030+ construction project in the North Sea) and wind climates as a basis for conducting a baseline uncertainty assessment. This should include at least one scenario with measurement data available (e.g., using a suitable public dataset) and a scenario relying on modelled wind data only, to reflect the different EYA workflows and associated uncertainties.
- Run an anonymised round-robin to capture the current industry representation of uncertainty categories using one or more representative example 1GW offshore wind farm cases. All inputs to the round-robin exercise shall be provided by the contractor to all OWA partners, including layout, turbine thrust / power curves (which may be generic but realistic), wind data and/or climate information and technical loss assumptions. Sufficient accompanying metadata and high-level statistics shall also be provided (e.g., data availability, measurement period, measurement levels, etc) to enable the assessment of the wind data uncertainty levels. Equivalent supporting information shall be provided by the contractor for all key inputs where needed to support a robust assessment.
- Produce a framework and baseline that OWA partners and the wider industry can use to compare, evidence, and publish improvements. The contractor shall publish the framework and baseline uncertainty method established through this project for all subsequent work and findings as a public paper and present at conferences. All content must be reviewed and approved by the OWA partners (both the TWG-Y and Steering Committee) before publication.

2.4 The expected benefits of this work are:

- It creates a common, evidence-based baseline for uncertainty assessment methods and overall EYA uncertainty, enabling credible comparison of future improvements and avoiding inconsistent “claimed” uncertainty reductions.
- Supports cost reduction and scale-up by improving consistency and transparency in EYA uncertainty treatment, reducing friction in investment decisions, financing, and contracting.
- Strengthens industry resilience and industrialisation by identifying where formal standards exist versus where approaches rely on expert judgement, highlighting priority gaps for standardisation and best practice evolution.

3. Tender documents for submission

3.1 In response to this Invitation to Tender, Bidders are required to submit

i. A Main Bid Document (pdf) – no template provided;
ii. The signed Tender Certificate (pdf) – template provided; and
iii. The filled-in Bid Price Calculation Sheet (xls) – template provided.

3.2 The Main Bid Document should be no more than 20 pages excluding appendices and no more than 40 pages including appendices. Font should be clearly legible, and be at least font size 11. The Main Bid Document shall as a minimum include the following information:

i. The Bidder's proposed detailed Approach to Work (see section 4 and criterion 1 for more details). The Approach to Work should:
   - include a Gantt chart which describes the timeline for the Project, showing when each Work Package will start and finish;
   - outline how the Bidder will deliver the Scope of Work and do so on budget and within the allocated time;
   - specify any input data, background IP, hardware or other inputs that the Bidder requires the Carbon Trust and/or the OWA Partners to provide;
   - specify any Alternative Work (i.e. substitute activities to take place instead of certain activities outlined in the Scope of Work in section 4). If Alternative Work forms part of the Approach to Work, the Bidder is expected to highlight, explain and justify the intended deviation from the Scope of Work. Alternative Work will be considered as non-optional when the Tender is evaluated; and
   - specify any Additional Work (i.e. activities to take place in addition to the activities outlined in the Scope of Work in section 4). If Additional Work forms part of the Approach to Work, the Bidder is expected to explain and justify why the Additional Work would be beneficial and to provide a separate quotation for these activities. It is at the discretion of the Carbon Trust to consider Additional Work in the evaluation of the Tender.
ii. a pdf copy of the filled-in Bid Price Calculation Sheet;
iii. the offered Bid Price, including any cost assumptions deemed relevant by the Bidder – see section 6 and criterion 4 for more details;
iv. an explanation of experience and staff skills, and how these are relevant to the Approach to Work – see criteria 2 and 3 for more details; and
v. supplementary information to provide experience evidence and skills evidence (e.g. CVs) – see criteria 2 and 3 for more details. This information should be provided as appendices to the Main Bid Document.

3.3 The Tender Certificate must be signed by an authorised signatory. Bidders must fill in the provided template.

3.4 The filled-in Bid Price Calculation Sheet must be provided in Excel format in addition to the information provided in the Main Bid Document. See Section 6 and Criterion 4 for more details.

3.5 The failure by a bidder to submit either the Main Bid Document, the signed Tender Certificate or the filled-in Bid Price Calculation Sheet shall mean that such Tender is a non-compliant Tender.

4. Scope of Work

4.1 The Scope of Work is provided in this section 4.

4.2 The Scope of Work comprises 5 Work Packages. The Scope of Work sets out the initial ideas on the key activities that the Contractor is expected to deliver for the Project.

4.3 It is expected that the Contractor will report on Project Deliverables to the TWG. The Carbon Trust and TWG shall review and provide feedback on each Project Deliverable. There will be at least one round of review comments to be accommodated by the Contractor for each Project Deliverable.

4.4 The Final Scope of Work will be agreed between the Carbon Trust and the Contractor when entering into the Contract. The Final Scope of Work may reflect any updates, changes or improvements to the Scope of Work as proposed by the Contractor in its Alternative Work or Additional Work and as agreed by the Carbon Trust.

4.5 Due to the breadth of skills and experience required for the Project bidders may decide to build a consortium to successfully meet the objectives of the Project. If a Tender is submitted by a consortium, it is expected that, in the case that the consortium is selected as the preferred Bidder, Carbon Trust will only enter into a Contract with the Project Coordinator, and that the Project Coordinator will subcontract the other members of the consortium.

4.6 The Carbon Trust appreciates that it will take a small team of mixed seniority approximately **18 months** to complete the Project.

4.7 Bidders should use the Scope of Work as set out below to create the Approach to Work. Any Alternative Work or Additional Work shall be stated in the Approach to Work at the end of the relevant Work Package description.

4.8 It is expected that simplifying assumptions will be required to complete the work in the given timeframe. These assumptions should, to the extent possible at the time of Tender submission, be clearly stated in the Approach to Work. It is expected that during the execution of the PLUME Project, any assumptions will be discussed with the TWG prior to the start of each Work Package.

WORK PACKAGES

Work Package	Description of work
WP1: Literature review of the current industry state of the art	A literature review should be undertaken by the Contractor to understand the current industry state-of-the-art and standards in relation to: • Existing and commonly used methods and assumptions for computing uncertainty for individual parts of the EYA process, including but not limited to wind resource, gross yield and technical losses. • Existing and commonly used methods for propagating and/or combining uncertainties for an Energy Yield Assessment. • Identification of gaps or missing uncertainty categories that should exist within the overall uncertainty assessment. • Sensitivities to and interplay between different uncertainty categories. The Contractor should assess which uncertainty contributors have formal, standardised methodologies and where approaches rely on assumptions/expert judgement. This literature review will provide a broad assessment of available and routine EYA uncertainty quantification methods, which will support setting an evidence-based 2026 baseline for uncertainty assessment methods and overall EYA uncertainty. The expected relative budget use for WP1 is 10% of the total budget.
Project Deliverables: - **D01: Literature review report on current industry state-of-the-art EYA uncertainty methods** - **D02: Presentation of the literature review to TWG partners**	
WP2: Literature review of emerging uncertainty methods	Like WP1, the Contractor shall conduct a second literature review to evaluate the state of emerging uncertainty techniques that could be leveraged in the short to medium term for quantifying and combining EYA uncertainties. This evaluation should include, but not be limited to, emerging uncertainty methods for: • Computing uncertainty for wind resource relative to net AEP • Computing uncertainty for gross yield relative to net AEP • Computing uncertainty for technical losses relative to net AEP • Propagating/combining uncertainties for an EYA relative to net AEP Where relevant to EYA uncertainty, assess emerging approaches for dealing with policy- and development-related uncertainties, including wake compensation arrangements, project spacing requirements, and the treatment of nearby planned developments. The expected relative budget use for WP2 is 10% of the total budget.

<table>
<tr><td colspan="2">Project Deliverables:
- D03: A literature review report on emerging EYA uncertainty techniques
- D04: Presentation of the literature review to TWG partners</td></tr>
<tr><td>WP3: Round Robin exercise using a standard 1GW offshore wind farm example</td><td>The Contractor shall design and run an anonymised round-robin exercise (i.e., a like-for-like comparison in which multiple organisations independently complete the same EYA uncertainty task using the same standardised inputs, and results are collated and compared) across OWA partners and selected consultancy houses, using a representative example case for a 1GW offshore wind farm (using future 2030+ turbine technology in the first instance, and existing technology if possible). This exercise will help capture the industry representation of current EYA uncertainty methods used, uncertainty categories, assumptions and calculation approaches, building a clear picture of the current state of the art.

First, the Contractor shall define and justify an appropriate reference basis against which the example-case uncertainty assessments will be interpreted. It should be made clear where the Contractor is making a comparison of participant methods against a reference dataset or benchmark. Where no single “truth” source exists, the limitations of the chosen reference basis should be stated clearly and reflected in the interpretation of the baseline uncertainty.

The contractor shall then design a representative example case for a 1GW offshore North Sea wind farm(s) and example wind climate(s) for use in the round robin exercise. The suitability of the example(s) should first be discussed with the OWA partners to ensure that there is enough impact of changes to uncertainty (e.g. coastal vs far offshore with respect to spatial variations) and seek approval from partners.

For the round robin exercise, participants shall be asked to provide their EYA uncertainty breakdown (wind resource, gross yield and technical losses) and to describe the methods, assumptions, and uncertainty combination/propagation approach used and run the uncertainty assessment on the example wind farm

The Contractor shall conduct follow-up interviews as needed to ensure responses are comparable and well evidenced, including clarifying differences between time-series and statistical approaches.

Finally, the contractor shall produce a report summarising the findings from the round robin exercise and interviews conducted. The report should describe the range of methods and assumptions used, the impact on variance in the reported project's overall energy yield uncertainty, and the implications.

The expected relative budget use for WP3 is 30% of the total budget.</td></tr>
<tr><td colspan="2">Project Deliverables:
- D05: 1GW offshore wind farm example(s) and wind climate example(s)
- D06: Report summarising round-robin and interview findings
- D07: Presentation of the round-robin and interview findings to TWG partners</td></tr>
<tr><td>WP4: Assessment of current method & framework development</td><td>The contractor shall synthesise findings from WP1–WP3 into a concise, evidence-based framework of current methods used by industry, describing how EYA uncertainty categories are currently defined, quantified, and combined across industry. The contractor shall also</td></tr>
</table>

	identify and clearly document where approaches, assumptions or results differ. The Contractor shall also identify and propose targeted short- and medium-term improvement opportunities and provide practical recommendations for this framework. The framework should provide a structured basis for closing identified gaps, while new or emerging methods identified in WP2 may offer ways to reconcile differences where appropriate. The expected relative budget use for WP4 is 30% of the total budget.
Project Deliverables: - **D08: Framework report** - **D09: Presentation of the framework to TWG partners**	
WP5: Dissemination through academic papers and conferences	The framework publication should clearly document the key assumptions, uncertainty categories, and calculation choices that underpin the baseline, and highlight the most promising areas for near-term improvement. It should also set out how future studies should reference and compare with the baseline to ensure consistency and credibility for future uncertainty gains and advancements. The expected relative budget use for WP5 is 10% of the total budget.
Project Deliverables: - **D10: Final academic publication** - **D11: Presentation of the Academic Publication to TWG partners**	

WPA. Project Management	The Bidder should stipulate how it will manage the Project efficiently and effectively.
	In particular, the following activities should be included (and hence budgeted for)
	• project management time (including sufficient time for review processes);
	• regular update calls with the Carbon Trust Project Manager and/or Technical Working Group as required;
	• the preparation of quarterly flash reports (Carbon Trust template) containing key financial data and information on the delivery status of the Project; and
	• towards the end of the Project
	  ○ the production of a 3-10 page Executive Summary Report for the entire Project (for dissemination within the OWA)
	  ○ the preparation of a Project Closeout Form (Carbon Trust template), which includes a short summary of areas for future research and a documentation of all Project Deliverables;
	  ○ the preparation of a final presentation to the TWG;
	  ○ time dedicated to presenting the main results, findings and outcomes of the Project in the form of a 1-hour webinar to OWA Partners; and
	Bidders should be aware that the Carbon Trust and TWG usually require 2-3 weeks to review and provide feedback on each Project Deliverable, with at least one round of review comments to be accommodated. This should be considered when calculating Your Bid Price.

Project Deliverables: - **D12: Quarterly flash reports** - **D13: Executive Summary Report** - **D14: Final presentation** - **D15: Delivery of close-out webinar** - **D16: Project Closeout Form**	
Expenses	The Bidder should detail the amount of expenses it expects to incur throughout the Project. Expenses will be paid as incurred up to the amount specified, and any unused balance will not be paid.

5. Intellectual Property, Knowledge and Input Data

5.1 Full details of the intellectual property requirements and conditions can be found in the attached OWA Stage IV Contractors' Conditions.

5.2 The Carbon Trust and/or the OWA Partners are able to make available the following input data, background IP or other resources to the successful Bidder for the purposes of completing the Project, subject to the confidentiality conditions in the OWA Stage IV Contractors' Conditions:

a. None.

6. Bid Pricing

6.1 To provide Bidders with greater clarity on the nature, level and type of work involved in the various Work Packages, the Total Budget for the delivery of this Project is expected to range between £90k and £105k.

6.2 The Bid Price submitted with the Tender must be derived from the cost breakdown in the Bid Price Calculation Sheet, and must include all expenses. The Bid Price is the price for the activities that will address the Scope of Work (and any Alternative Work proposed by the Bidder). The Bid Price Calculation Sheet and the Bid Price shall not include the price of any Additional Work suggested by the Bidder. Instead, the price for such Additional Work Packages shall be stated separately from the Bid Price in the Main Bid Document.

6.3 If the Bid Price exceeds the expected range of the Total Budget as stated under section 6.1, to avoid receiving a lower score for criterion 4, in the Main Bid Document, the Bidder should provide a clear and justified reason why the Bid Price exceeds the expected budget.

6.4 All costs and rates quoted in the Main Bid Document and Bid Price Calculation Sheet must be in GBP (£), and all staff rates quoted in the Tender must represent the **Day Rate** for employment of staff members.

6.5 Any expenses must be separately included under Expenses.

7. Tender Evaluation Criteria

7.1. Technical & Financial Evaluation

Bidders should take the following evaluation criteria into account when preparing and submitting their tenders. In the event of equivalent scores of two or more received Tenders, suppliers and sub-contractors who have committed to decarbonisation targets (see end of this section) will be preferred.

CRITERION 1: APPROACH TO WORK (WEIGHTING: 30%)

Description	Information required from Bidders
Proposed Approach	In the Main Bid Document, Bidders are required to provide a clear and detailed description of how they plan to deliver the work for this Project. The description should include an initial overview of the approach, followed by a description of how each Work Package and task will be delivered. Also, Bidders need to justify how their proposed approach meets the objectives of the Project.
Additional Work	If there is any Additional Work proposed by the Bidder, these aspects will be evaluated separately. The suggestion of Additional Work by the Bidder will not have a negative impact on the evaluation of the Tender.
Project management	Bidders are required to describe how they will manage the Project utilising appropriate resources and describe how they will work with the various stakeholders, such as the relevant OWA TWG, to get information and manage potentially conflicting relationships.

CRITERION 2: EXPERIENCE (WEIGHTING: 30%)

Description	Information required from Bidders
Experience in EYA uncertainty methods, assumptions and uncertainty contributors	In the Main Bid Document, Bidders should elaborate on experience of the criteria described to the left and explain how these past experiences are relevant for this Tender. In addition, Bidders should provide at least two examples (with reference to specific roles, responsibilities and activities the Bidder undertook) of previous work which illustrates the Bidder's skills, capabilities, and experience in all of these areas (Bidders may wish to make reference to submitted examples of previous work for other clients). Bidders are advised that experience is considered a key important criterion and partnerships with other companies to support certain areas of experience are welcomed. All experience / case studies should be attached as an appendix to the Main Bid Document.
Experience in time-series and statistical EYA approaches	
Experience in uncertainty propagation and combination methods	
Knowledge of relevant industry standards, frameworks and published methods	

Experience engaging with industry stakeholders to gather, interpret, and compare anonymised technical inputs	
Experience translating technical findings into practical frameworks, publications and industry-facing outputs	

CRITERION 3: STAFF SKILLS (WEIGHTING: 20%)

Description	Information required from Bidders
CVs/Resumes	Bidders are required to provide detailed CVs/Resumes for any key personnel who will be involved with this Contract, together with the proposed Project structure, intended position of the key personnel in the Project, and main responsibilities. CVs should include professional memberships of proposed staff working on this Project.
Applicable skills	Bidders should elaborate on the most relevant skills of the key personnel that will be involved in the Project.
Prior experience of the involved staff	Please include examples of similar work performed by the proposed staff members, explaining how it is relevant to the Approach to Work.
Expert engagement	A close working relationship with key stakeholders such as offshore wind farm developers and relevant consultancy houses, as well as the OWA Technical Working Group, is seen as relevant to the success of this Project. Please supply ideas on how these groups can be engaged and leveraged.

CRITERION 4: BID PRICE (WEIGHTING: 20%)

Description	Information required from Bidders
Day rates and man hours (man-h) for all staff grades	In the Bid Price Calculation Sheet, Bidders are required to provide day rates for all staff grades and to input the man-hours involved in each Work Package.
Price for the delivery of the Project	In the Bid Price Calculation Sheet, Bidders are required to provide a cost breakdown by Work Package, including man-hours and day rates of personnel completing the work as specified in section 5. Bidders are required to specify expected expenses separate from the estimated budget for each Work Package. The Bid Price will be assessed on the price for the Approach to Work (which includes the price of the Work Packages in the Scope of Work and any Alternative Work proposed by the Bidder). If there is any Additional Work proposed by the Bidder, this will be evaluated separately. The suggestion of Additional Work by the Bidder will not have a negative impact on the evaluation of the Tender. Carbon Trust will reimburse reasonable expenses at cost, and receipts may be requested. Pre-approval will be required for travel costs over £150 per return journey and combined hotels & subsistence costs exceeding £200 per day.

	Bidders will be required to confirm or comment on their ability to carry out the activities detailed in the Scope of Work within the initial term of the Contract and provide an outline plan of work.

7.2. Contractual Evaluation

Bidders are required to state any requested amendments to the OWA Stage IV Contractors' Conditions in their Tender Certificate. Any requests for amendments made after submission of the offer (i.e. not included in the Tender Certificate) shall not be considered by the Carbon Trust. On the basis of any changes requested in the Tender Certificate, the Carbon Trust may reject any bids where they consider there to be a high risk of not agreeing a contract in a timely manner.

The Carbon Trust has committed to reaching Net Zero by 2050. Our associated targets have been validated by the Science Based Targets Initiative (SBTi)[2]. To meet the initial targets that we have set for ourselves, we encourage all our suppliers and sub-contractors to have equivalent plans in place by 2026 at the latest. Measuring your emissions, setting targets, and encouraging others to do so will help push the needle on decarbonisation together.

Accordingly, we have included climate change commitment clauses in the OWA Stage IV Contractors' Conditions. Bidders may submit Tenders even if they cannot meet the defined conditions now, but if this is the case, this should be clearly flagged in the Tender Certificate as a requested change to the OWA Stage IV Contractors' Conditions. Please reach out if you need more information on this.

[2] https://sciencebasedtargets.org/

8. Glossary

Approach to Work	Has the meaning set out in section 3.1.
Additional Work	Any activities that are proposed by the Bidder in addition to those in the Scope of Work. It is at the discretion of the Carbon Trust to consider Additional Work in the evaluation of the Tender. The suggestion of Additional Work by the Bidder will not have a negative impact on the evaluation of the Tender.
Alternative Work	Deviations from the Scope of Work that are proposed by the Bidder, which replace work or tasks in the Scope of Work. Alternative Work will be treated as non-optional in the evaluation of the Tender.
Award Letter	A letter, issued by Carbon Trust, informing the Contractor about the award of the Contract. The Award Letter is issued together with the Final Scope of Work and the OWA Stage IV Contractors' Conditions.
Bidder	An individual, a company, an organisation or a consortium submitting a bid for the Project.
Bid Price	The total price for the Bidder to complete the Project in line with the Approach to Work. The Bid Price shall include the price for the delivery of all Work Packages described in the Scope of Work and any Alternative work proposed by the Bidder. The Bid Price shall not include the price of any Additional Work suggested by the Bidder.
Bid Price Calculation Sheet	An Excel template provided by the Carbon Trust that is to be provided by the Bidder in addition to the Main Bid Document.
Carbon Trust Project Manager	The Carbon Trust employee who serves as first point of contact in relation to this ITT and the Project.
Clarification Document	A document containing all received clarification questions and Carbon Trust's responses to these questions.
Contract	A document consisting of the Award Letter, the Final Scope of Work, the OWA Stage IV Contractors' Conditions, and any clarifications agreed in writing.

Contractor	The Bidder (or in the case of a consortium, Bidders) selected for the delivery of the Project.
Description of Tender	This document.
Due Diligence Questionnaire	A questionnaire that is to be completed by shortlisted Bidders should Carbon Trust's bidders vetting process give reason to conduct due diligence. In case of a consortium, the Due Diligence Questionnaire is to be filled in by the designated Project Coordinator.
Executive Summary Report	A 3-10 page report containing a high-level description of the Work Programme and a summary of the relevant results, findings and conclusions of the Project. Information can be taken from summaries written for previous Work Packages
Final Scope of Work	The agreed Work Programme for the Project, based on the Scope of Work and the Approach to Work, which is mutually agreed between the Carbon Trust and the Contractor.
Flash Report	A template provided by the Carbon Trust at Project start.
Invitation to Tender (ITT)	The following group of documents: Description of Tender (this document); OWA Stage IV Contractors' Conditions; Tender Certificate template; Bid Price Calculation Sheet template; and Clarification Document (if applicable[3]).
Main Bid Document	Has the meaning given in section 3.1. No template is provided.
Project	The Pre-construction baseline uncertainty method for energy yield assessments or PLUME project.
Project Closeout Form	A template provided by the Carbon Trust towards the end of the Project.
Project Deliverables	The individual deliverables, including but not limited to any reports, technical notes, documents, drawings, models, data, webinars, to be produced by the Contractor according to the Scope of Work (see section 4) or as otherwise agreed in the Final Scope of Work.
OWA	Offshore Wind Accelerator

[3] A Clarification Document will not be published if no clarification questions are received in relation to this ITT.

OWA Partners	A group of leading offshore wind farm developers supporting the OWA.
OWA Cost Model	The Contractor is not expected to produce a cost model of its own, but rather provide an estimate, with appropriate explanation, for potential cost implications of the research undertaken within the frame of the delivered project. The Carbon Trust will provide a template to assist the Contractor in this process.
OWA Cost Model Input Sheet	A form (to be provided by Carbon Trust) which the Contractor should complete in WPA to provide input into the OWA Cost Model.
Scope of Work	The (preliminary) Work Programme for the Project is defined in section 4 of this document. At Contract award, the Scope of Work will be replaced by the Final Scope of Work.
Technical Working Group (TWG)	A group consisting of technical experts appointed by the OWA Partners. The TWG will supervise the Project.
Tender	Bidder's response to this ITT consists of the following elements: - Main Bid Document (proposal); - signed Tender Certificate; and - Bid Price Calculation Sheet
Tender Certificate	A declaration that is to be provided by the Bidder (in case of a consortium: by the designated Project Coordinator) in addition to the Main Bid Document.
Total Budget	The expected amount of money available that will be made available from the OWA programme to the Contractor for the delivery the Project.
Work Package	A group of related tasks to be delivered under the Project.
Work Programme	The entirety of all Work Packages.