

9 February 2024

Dear Sir/Madam,

**Invitation to Tender for the Wet Storage Solutions project for the Floating Wind Joint Industry Programme**

You are invited to submit a proposal for the Wet Storage Solutions project which is part of the Floating Wind Joint Industry Programme. The key objective of this project is to understand the limitations surrounding different wet storage solutions (WSS) and scenarios. .

Please be aware that this process is a non-mandatory procurement process, published for transparency and best practice. All timescales are based, as near as possible, to the Open Procedure. However, dates referred to below may be subject to change where this is necessary in the interests of the project (such changes will be notified in advance).

Should your proposal be successful an Award Letter, the Scope of Work, the Carbon Trust Conditions of Contract ("**Conditions**"), and any clarifications agreed in writing, will establish the Contract for the Wet Storage Solutions project (the "**Contract**") between you and the Carbon Trust. The Conditions accompany this ITT for your prior review. Please note that in the interests of transparency and fairness, these Conditions are non-negotiable, although we will provide clarifications to any queries you may have prior to submitting your Tender, answers to which will be distributed to all bidders as set out below. Bids that fail to accept the Conditions in their full un-amended form (other than changes explicitly accepted and agreed by the Carbon Trust on the clarifications page) at the time of submission will be considered to be non-compliant and may, at the Carbon Trust's discretion, be excluded from the procurement process.

Clarification questions must be emailed to [Mary.Harvey@carbontrust.com](mailto:Mary.Harvey@carbontrust.com) and [FloatingWind@carbontrust.com](mailto:FloatingWind@carbontrust.com) any time before 23 February 2024. Answers to clarification questions will be communicated by email by 28 February 2024. Answers can be found at: <https://www.carbontrust.com/about-us/tenders>.

Unless informed to the contrary, Tenders and communications should be sent by e-mail to the following e-mail address: [Mary.Harvey@carbontrust.com](mailto:Mary.Harvey@carbontrust.com) and [FloatingWind@carbontrust.com](mailto:FloatingWind@carbontrust.com).

Please submit your proposal by 17:00 GMT 22 March 2024.

The timeline of this procurement process is as follows:

Deadline for clarification questions	23 February 2024
Clarification response date	28 February 2024
Submission of full proposal	17:00 GMT 22 March 2024
Bidder interviews	Week commencing 29 April 2024
Project kick off	June 2024

If you have any questions about the timing, please let us know.

We look forward to receiving your Tender.

Yours sincerely,

**Mary Harvey**  
For and on behalf of  
THE CARBON TRUST

## **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 published, 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 Floating Wind JIP Partners against the criteria provided in section 7 and the Bidder authorises the Carbon Trust to share its submitted Tender with the Floating Wind JIP 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 described in this Invitation to Tender (ITT) 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 proposal addressing these requirements.

Issuance of this ITT 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 Floating Wind JIP Stage III Contractors' Conditions, and any clarifications agreed in writing. The Award Letter, the Final Scope of Work, the Floating Wind JIP Stage III Contractors' Conditions, and any clarifications agreed in writing will establish the Contract for the Wet Storage Solutions project (the "**Contract**") between You and the Carbon Trust. With the exception of any minor amendments to the Floating Wind JIP Stage III Contractors' Conditions which may be requested by the Bidder, the submission of a Tender shall constitute unqualified acceptance of the Floating Wind JIP Stage III Contractors' Conditions. In the event that minor amendments to the Floating Wind JIP Stage III 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 also 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.

# Floating Wind Joint Industry Programme

## Invitation to Tender for the “Wet Storage Solutions” Project

### Description of Tender

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# 1. Introduction to the Floating Wind Joint Industry Programme

1.1. The Floating Wind Joint Industry Programme (“**Floating Wind JIP**”) is a collaborative R&D initiative between the Carbon Trust and participating industry partners bp, EDF Renewables, EnBW, Equinor, Kyuden Mirai Energy, Ocean Winds, Ørsted, Parkwind, RWE Offshore Wind, ScottishPower Renewables, Shell, Skyborn Renewables, SSE Renewables, TEPCO, Tohoku EPCO, TotalEnergies and Vattenfall (the latter are collectively referred to in this document as “**Floating Wind JIP Partners**”), that aims to investigate the challenge and opportunities of developing commercial-scale floating wind farms.



- 1.2. The objective of the Floating Wind JIP is to overcome technological challenges and advance commercialisation of floating offshore wind.
- 1.3. Contractors receive technical direction and data from Floating Wind JIP Partners through the Carbon Trust management team.
- 1.4. Please note, the term “Contractor”, where used within this document, refers only to successful bidders.

## 2. Background and objective of the WSS project

- 2.1. The Floating Wind JIP Partners would like to investigate the requirements and limitations associated with wet storage solutions, ensuring quick and straightforward access to substructures. The project should assess how limiting parameters vary for the storage of substructures and the storage of substructures which have undergone WTG integration in both grounded and moored scenarios.
- 2.2. The construction of commercial-scale floating wind farms is likely to require wet storage of the substructures to optimise offshore schedules and run efficient campaigns. With commercial-scale floating wind farms in the planning and design phase, there is an urgent need to understand the requirements associated with wet storage, to allow for efficient installation campaigns during good weather windows.

The primary challenge in the deployment of commercial-scale floating wind installations lies in the large number of floating units to be installed. There are limited insights available from the Oil and Gas (O&G) sector because of the difference in project scale and number of floating structures in deployment. The substantial number of structures requiring wet storage for the installation of a floating wind farm results in a considerable area needed for storage. The extent of this required area is also dependent on the speed of component fabrication and assembly, including the integration of turbines onto the floaters.

Wet storage locations closer to the harbour or port may offer better shelter and require less

travel distance to access substructures, resulting in cost savings. Nonetheless, securing consent to moor or ground multiple substructures during a season is likely essential, and the present lack of clarity regarding the conditions for granting consent could potentially create a bottleneck in the wet storage process for substructures.

2.3. The main objectives of this work are to:

- Determine the limitations of design, metocean, seabed, and bathymetric conditions to safely wet store structures with a grounded solution.
- Determine the limitations of metocean and geographical conditions for different mooring configurations to safely and effectively wet-store substructures.
- Evaluate how these limitations change for floaters without integrated turbines and floaters with integrated turbines.
- Understand the conditions and the process for gaining consent for wet storage areas and the concerns of relevant stakeholders in pre-defining these areas.
- Undertake an assessment comparison of grounded solutions and moored solutions for wet storage, focusing largely on cost, but including other practical limitations.
- Define the parameter requirements for a wet storage area to successfully carry out storage of substructures.

### 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). Bidders shall provide Work Package descriptions in the format set out in Annex 2 to this document. 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 Floating Wind JIP 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 Floating Wind JIP Partners. The Carbon Trust and the Floating Wind JIP Partners 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 team of mixed seniority approximately 10-12 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 WSS project, any assumptions will be discussed with the Floating Wind JIP Partners prior to the start of each Work Package.



## WORK PACKAGES

Work package	Description of work
<b>WP1: Baseline assumptions</b>	<p data-bbox="411 331 1455 394"><i>Objective: Define the assumptions and parameters for wet-storage simulations to be conducted.</i></p> <ul data-bbox="411 432 1455 555" style="list-style-type: none"> <li>The contractor should define the base assumptions and parameters which are to be modelled in the following work packages. These conditions should be approved by the Floating Wind JIP. The contractor should use a combination of their own knowledge, literature and stakeholder engagement to determine the assumptions.</li> </ul> <p data-bbox="411 568 1062 602">The assumptions the contractor should determine are:</p> <ol data-bbox="411 616 1455 1854" style="list-style-type: none"> <li><b>Substructure assumptions</b> <ol style="list-style-type: none"> <li>The floating substructure material and whether that be steel or concrete should be considered as part of the assumptions. In addition, the dimensions, weights and drafts should be determined, and assessed against defined ranges. The Floating Wind JIP partners are particularly interested in floaters which can support 15 MW capacity and above. The contractor should note how the scaling changes when increasing turbine capacity.</li> <li>The mooring configuration is dependent on floater type, however, the contractor is encouraged to keep the substructure type generic, to first answer the question “is wet-storage feasible in these conditions” rather than deep-diving into specific floater types and scenarios. Though the contractor should keep in mind the substructure with the largest footprint, to determine how much space is required per floater.</li> </ol> </li> <li><b>Project size</b> <ol style="list-style-type: none"> <li>The contractor should determine the project size to be modelled, as this will impact the number of floaters to be stored and the schedule logistics for storing and assembling of WTG onto the floaters.</li> <li>The contractor should determine the area of wet storage required and determine how this changes once the WTGs have been integrated onto the floaters, compared to floaters without WTGs. Consideration should be taken to the equipment required for integrated turbines.</li> </ol> </li> <li><b>Scenario definition</b> <p data-bbox="411 1420 1422 1482">For each scenario, the Floating Wind JIP partners are interested in understanding the limiting parameters for storage.</p> <ol style="list-style-type: none"> <li>Two locations should be considered during the simulations: one inside the port area and one in a nearby sheltered location. Assumptions need to be made for both locations which include depth, distances to port/vessel launch and a range of the parameters below.</li> <li>The contractor should determine the conditions under which simulations will be carried out. For both the port location and sheltered site location, the parameters should include the range of wind speeds, current speeds, significant wave heights, Hs (which is likely to be due to other vessel traffic) and the range of tidal change.</li> <li>The bidder should explore methods for obtaining datasets for both locations and propose their modelling methodology for conducting the simulations.</li> </ol> </li> <li><b>Grounding scenarios definition</b> <p data-bbox="411 1928 1386 1991">The contractor will define the grounding simulations to be conducted in WP2 for a floating substructure in both a pre-integration and integrated scenario.</p> <ol style="list-style-type: none"> <li>What seabed preparation is required for the grounding of substructures?</li> </ol> </li> </ol>

	<ul style="list-style-type: none"> <li>b. Practical handling of the grounded substructures included additional equipment required for maintenance.</li> <li>c. Requirements to carry out grounding including aspects such as the orientation, maximum slope and amount of submergence. The bidder is encouraged to elaborate on grounding criteria in their proposal.</li> </ul> <p><b>5. Mooring scenarios definition</b></p> <p>The contractor will define the mooring simulations to be conducted during WP3, for a floating substructure in both a pre-integration and integrated scenario including:</p> <ul style="list-style-type: none"> <li>a. The definition of mooring configurations to be simulated, including the possibility of shared anchors, or any other novel solutions the contractor identifies. How do these change for substructures pre-integration and post WTG-integration? The bidder should expand on the process of selecting the mooring design.</li> <li>b. The mooring components (type of mooring line and type of anchor) to be assessed within the WP5 costing analysis. As part of the costing analysis compare the contrast temporary and permanent mooring solutions. As well as this evaluate the different anchor options where there may be environmental restrictions i.e., piling or seabed type differences.</li> <li>c. Practical handling of the moored substructures including additional equipment required for maintenance.</li> </ul> <p><b>6. Schedule assumptions</b></p> <ul style="list-style-type: none"> <li>a. The contractor should define the operational schedule for the fabrication, transport and WTG installation for the substructure based upon two different indicative scenarios, to be defined by the contractor. The contractor should also provide assumptions on other aspects of the project lifecycle including maintenance. This is highly dependent on the number of turbines which can be installed in a season, which should be defined by the contractor and validated during the project.</li> <li>b. Substructures will still need to be accessed during the wet storage. The ease and speed of access will need to be determined for both locations, making the best use of available vessels. During the remainder of the project, the ease and speed of access should be assessed for each location, to understand the operational risks of different storage locations against cost.</li> </ul>
<p><b>Project deliverables:</b></p> <ul style="list-style-type: none"> <li>- <b>D1: Report – A draft report outlining all background information and assumptions.</b></li> <li>- <b>D2: Presentation – Presentation to the Floating Wind JIP partners of the draft report.</b></li> <li>- <b>D3: Report – Final report outlining background information and assumptions.</b></li> </ul>	
<p><b>WP2: Grounding simulations</b></p>	<p><i>Objective: Determine the limitations of design, metocean, seabed and bathymetric conditions to safely wet store structures with a grounded solution.</i></p> <p>The floating wind JIP partners wish to further understand the feasibility of grounding substructures for wet storage and grounding is a feasible solution for all substructure types. The contractor should perform simulations to answer the following questions:</p> <ul style="list-style-type: none"> <li>• Is there a limiting factor in the design that prevents the feasibility of grounding?</li> <li>• What are the limiting factors for grounded substructures? The contractor should consider the operation and station-keeping of the grounded substructure. Including: <ul style="list-style-type: none"> <li>○ What is the margin for water depth? This should include the margin for the entire tidal range and ballasting.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ What is the maximum wave height and Hs?</li> <li>○ How does the current affect grounded substructures?</li> <li>○ How does wind speed affect grounded substructures?</li> <li>○ What is the bearing capacity considered during the grounding?</li> <li>● How do the seabed preparation requirements change in tidal areas where scour may need to be considered? The contractor should understand the costs associated with these preparations, which will be assessed in more detail in WP5.</li> <li>● What is the stress exerted on the columns over time? How does this affect the structures long-term? How does this change in tidal areas? What is the margin or tolerance acceptable for this?</li> <li>● Is there a limiting factor of stress exerted on the quay wall? How does this change over time? How does this change in tidal areas? What is the margin or tolerance acceptable for this?</li> <li>● What is the easiest and quickest way to access the substructures? How does this change for the two locations?</li> <li>● Is this solution feasible for integrated WTG substructures? If so, How do all these parameters change?</li> <li>● How do the findings change for a floating substructure and a floating substructure with an integrated turbine?</li> </ul>
<p><b>Project deliverables:</b></p> <ul style="list-style-type: none"> <li>- <b>D4: Report – Report assessing the feasibility of grounded substructures.</b></li> <li>- <b>D5: Presentation – Presentation to the Floating Wind JIP partners.</b></li> </ul>	
<p><b>WP3: Mooring simulations</b></p>	<p><i>Objective: Determine the limitations of metocean and geographical conditions for different mooring configurations to safely and effectively wet-store substructures.</i></p> <p>The Floating Wind JIP partners wish to further understand the limitations of mooring substructures for wet storage. The contractor should perform simulations to answer the following questions:</p> <ul style="list-style-type: none"> <li>● What are the limiting factors for moored substructures? The contractor should consider the operation and station-keeping of the moored substructure. Including: <ul style="list-style-type: none"> <li>○ What is the margin for water depth? This should include the margin for the entire tidal range and ballasting.</li> <li>○ What is the maximum wave height and Hs?</li> <li>○ How does the current affect mooring configurations?</li> <li>○ How does wind speed affect integrated turbines on moored substructures?</li> </ul> </li> <li>● How do all these parameters change if the substructures have undergone WTG integration?</li> <li>● What is the best mooring configuration? Does there need to be full redundancy, considering there is no electrical cable connection? How much tension is required in the mooring lines? What are the exerted loads on the mooring lines? Is weather vaning allowed? How does the distance between the floaters (and therefore overall size) change with these configurations?</li> <li>● Can shared anchors be used to limit the number (and cost) of anchors to be deployed? Is it possible for anchors to be used for multiple projects, with different mooring configurations, so that there is no need to retrieve the anchors? Pile anchors at certain distances could allow for shared moorings.</li> </ul>

	<ul style="list-style-type: none"> <li>• Is there a benefit between temporary and permanent anchoring/mooring systems? How do the limiting parameters change between these?</li> <li>• The partners also wish to understand if the length of time for wet storage affects the substructure itself, and does this alter the design of the floater.</li> <li>• What is the easiest and quickest way to ensure access the structures?</li> <li>• How do the findings change for a floating substructure and a floating substructure with an integrated turbine?</li> </ul>
<p><b>Project deliverables:</b></p> <ul style="list-style-type: none"> <li>- <b>D6: Report – Report assessing mooring solutions for wet storage of substructures.</b></li> <li>- <b>D7: Diagrams – Depiction of the mooring configurations, to be included in D6.</b></li> <li>- <b>D8: Presentation – Presentation to Floating Wind JIP partners.</b></li> </ul>	
<p><b>WP4: Consent considerations</b></p>	<p><i>Objective: Understand the consent considerations for different technical scenarios of wet-storage.</i></p> <ul style="list-style-type: none"> <li>• There is limited clarity on the responsibility of obtaining consent. The availability of wet storage areas is likely to affect port selection for future floating offshore wind farm projects; as such the Floating Wind JIP partners wish to understand the possible route to consent for various technical scenarios of wet-storage and how these considerations may change for different scenarios.</li> <li>• The contractor will present the technical specifications for a number of scenarios addressed in the previous WPs (to be agreed with Floating Wind JIP partners). Using these specifications, the contractor will evaluate what consents may be required and how this will vary for each scenario.</li> <li>• The contractor will obtain opinions from 3<sup>rd</sup> party specialists including consultants and lawyers to understand the consenting pathways and considerations for the different technical specifications of wet storage.</li> </ul>
<p><b>Project deliverables:</b></p> <ul style="list-style-type: none"> <li>- <b>D9: Report – Technical specification and consent assessment report.</b></li> <li>- <b>D10: Presentation – Presentation to the Floating Wind JIP partners.</b></li> </ul>	
<p><b>WP5: Cost considerations</b></p>	<p><i>Objective: Undertake an assessment of the grounded and moored scenarios, focusing largely on cost, but including other practical limitations.</i></p> <ul style="list-style-type: none"> <li>• Utilising outputs from WP1-4 and information acquired through literature and/or stakeholder engagement to confirm assumptions, the contractor should model indicative costs of grounded solutions and moored solutions for specific scenarios.</li> <li>• The cost assessment must consider all costs associated with the wet-storage solution for the full storage duration, including: <ul style="list-style-type: none"> <li>○ Leasing costs for the wet-storage area;</li> <li>○ Additional upfront costs required e.g., marine warranty surveyor</li> <li>○ Ground preparation work to place the structures;</li> <li>○ Capital expenditure of the mooring solutions;</li> <li>○ Installation costs of the mooring solution;</li> <li>○ Installation costs of the substructures;</li> <li>○ Retrieval costs of the mooring solutions (if applicable).</li> <li>○ All vessels required to place the structures in the grounding positions</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• The limiting factors indicated as part of the simulations should be collated to determine the parameter requirements which need to be fulfilled by a base harbour to successfully implement wet storage solutions. <ul style="list-style-type: none"> <li>○ The contractor should highlight scenarios where different solutions would be preferred, including cost but practical limitations where necessary.</li> </ul> </li> </ul>
<p><b>Project deliverables:</b></p> <ul style="list-style-type: none"> <li>- <b>D11: Excel model – Excel model of indicative costs assessed.</b></li> <li>- <b>D12: Report – Report detailing cost scenarios and base port parameter requirements.</b></li> <li>- <b>D13: Presentation – Presentation to Floating Wind JIP partners.</b></li> </ul>	
<p><b>WPA. Project Management</b></p>	<p>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)</p> <ul style="list-style-type: none"> <li>• Project management time (including sufficient time for review processes);</li> <li>• Regular update calls with the Carbon Trust Project Manager and/or Floating Wind JIP Parties as required;</li> <li>• The preparation of monthly flash reports (Carbon Trust template) containing key financial data and information of the delivery status of the Project; and</li> <li>• Towards the end of the Project <ul style="list-style-type: none"> <li>○ The production of a 3-10 pages Executive Summary Report for the entire Project (for dissemination within the Floating Wind JIP);</li> <li>○ 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;</li> <li>○ The preparation of a final presentation to the Floating Wind JIP Parties ;</li> <li>○ Time dedicated to presenting the main results, findings and outcomes of the Project in the form of a 1-hour webinar to the Floating Wind JIP Parties; and</li> <li>○ The provision of inputs for the Floating Wind JIP Cost Model by completing the Floating Wind JIP Cost Model Input Sheet (Carbon Trust template).</li> </ul> </li> </ul> <p>Bidders should be aware that the Carbon Trust and the Floating Wind JIP Parties 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.</p>
<p><b>Project Deliverables:</b></p> <ul style="list-style-type: none"> <li>- <b>D14: Monthly flash reports</b></li> <li>- <b>D15: Executive Summary Report</b></li> <li>- <b>D16: Final presentation</b></li> <li>- <b>D17: Delivery of webinar</b></li> <li>- <b>D18: Project Closeout Form</b></li> <li>- <b>D19: Input sheet for Floating Wind JIP Cost Model</b></li> </ul>	
<p><b>WPB: Expenses</b></p>	<p>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.</p>

## 5. Intellectual Property, Knowledge and Input Data

- 5.1. Full details of the intellectual property requirements and conditions can be found in the attached Floating Wind JIP Stage III Contractors' Conditions.
- 5.2. The Carbon Trust and/or the Floating Wind JIP Partners are able to make available the following input data, background IP or other resources to the successful Bidder for the purposes of the completing the Project, subject to the confidentiality conditions in the Floating Wind JIP Stage III 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 £145,000 and £155,000.
- 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 to 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

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
<b>Proposed Approach</b>	<p>In the Main Bid Document, Bidders are required to provide a clear and detailed description on how they plan to deliver the work for this Project.</p> <p>The description should include an initial overview on the approach followed by a description on how each Work Package and task will be delivered.</p> <p>Also, Bidders need to justify how their proposed approach meets the objectives of the Project.</p>
<b>Additional Work</b>	<p>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.</p>
<b>Project management</b>	<p>Bidders are required to describe how they will manage the project utilising appropriate resources and describe how they will work with the various stakeholders to acquire information and manage potentially conflicting relationships.</p>

### CRITERION 2: EXPERIENCE (WEIGHTING: 30%)

Description	Information required from Bidders
<b>Experience in and knowledge of floating wind installation challenges</b>	<p>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.</p>
<b>Experience in metocean conditions and modelling; approach TBC by contractor</b>	<p>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).</p>
<b>Knowledge of floating wind component costs</b>	<p>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.</p>

### CRITERION 3: STAFF SKILLS (WEIGHTING: 15%)

Description	Information required from bidders
<b>CVs/Resumes</b>	<p>Bidders are required to provide detailed CVs/Resumes for any key personnel who will be involved with this Contract together with proposed Project structure, intended position of the key personnel in</p>



	the Project, and main responsibilities. CVs should include professional memberships of proposed staff working on this Project.
<b>Applicable skills</b>	Bidders should elaborate on the most relevant skills of the key personnel that will be involved in the Project.
<b>Prior experience from involved staff</b>	Please include examples of similar work performed by the proposed staff members, explaining how is relevant to the Approach to Work.
<b>Expert engagement</b>	A close working relationship with key stakeholders such as 3 <sup>rd</sup> party specialists with a knowledge in consenting considerations, such as lawyers and expert consultants, as well as the Floating Wind JIP. Parties are seen relevant to the success of this Project. Please supply ideas of how these groups can be engaged and leveraged.

#### CRITERION 4: BID PRICE (WEIGHTING: 25%)

Description	Information required from bidders
<b>Day rates and man hours (man-h) for all staff grades</b>	In the Bid Price Calculation Sheet, Bidders are required to provide day rates for all staff grades and to input the man-h involved in each Work Package
<b>Price for the delivery of the Project</b>	<p>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 4.</p> <p>Bidders are required to specify expected expenses separate from the estimated budget for each Work Package.</p> <p>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).</p> <p>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.</p> <p>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 &amp; subsistence cost exceeding £200 per day.</p> <p>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.</p>

The Carbon Trust has committed to reaching Net Zero by 2050. Our associated targets have been validated by the Science Based Targets Initiative (SBTi)<sup>1</sup>. To meet the initial targets that we have set for ourselves, we encourage all our suppliers and sub-contractors to themselves have equivalent plans

<sup>1</sup> <https://sciencebasedtargets.org/>



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 Floating Wind JIP Stage III 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 Floating Wind JIP Stage III Contractors' Conditions. Please reach out if you need more information on this.

## 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 Floating Wind JIP Stage III 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 Floating Wind JIP 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 a 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 pages 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.
Floating Wind JIP	Floating Wind Joint Industry Programme
Floating Wind JIP Partners	A group of leading offshore wind farm developers supporting the Floating Wind JIP.
Floating Wind JIP 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.
Floating Wind JIP Cost Model Input Sheet	A form (to be provided by Carbon Trust) which the Contractor should complete in WPA to provide input into the Floating Wind JIP Cost Model. I
Invitation to Tender (ITT)	The following group of documents: Description of Tender (this document); Floating Wind JIP Stage III Contractors' Conditions; Tender Certificate template; Bid Price Calculation Sheet template; and Clarification Document (if applicable <sup>2</sup> ).
Main Bid Document	Has the meaning given in section 3.1. No template is provided.
Project	The Wet Storage Solutions or WSS 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.
Scope of Work	The (preliminary) Work Programme for the Project as defined in section 4 of this document. At Contract award, the Scope of Work will be replaced by the Final Scope of Work.

<sup>2</sup> A Clarification Document will not be published if no clarification questions are received in relation to this ITT.

Tender	<p>Bidder's response to this ITT consisting of the following elements:</p> <ul style="list-style-type: none"> <li>- Main Bid Document (proposal);</li> <li>- signed Tender Certificate; and</li> <li>- Bid Price Calculation Sheet</li> </ul>
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 Floating Wind JIP 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.