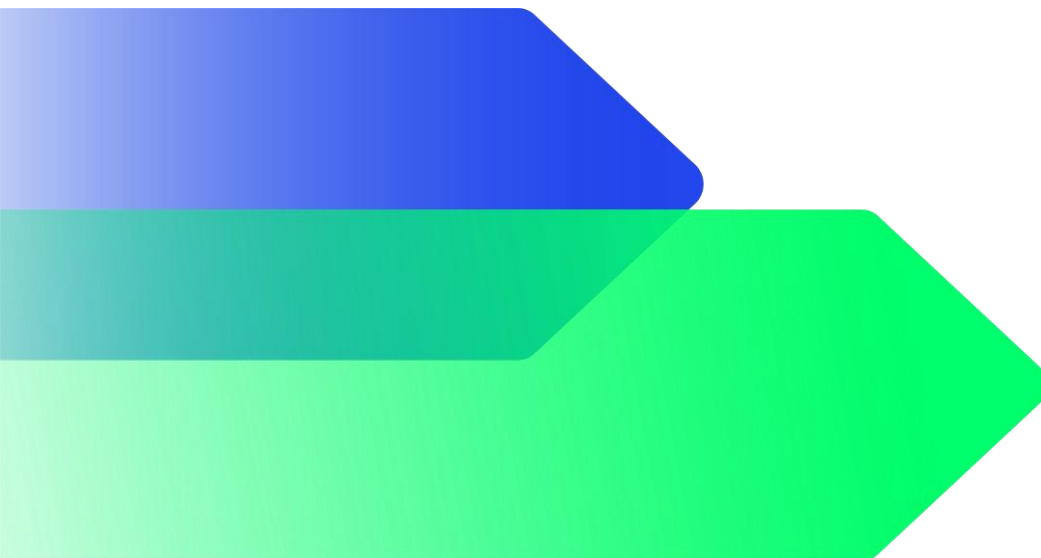


FLOATING WIND JOINT INDUSTRY PROGRAMME S3P3

Clarification Question Responses

Concrete Floater Analysis and Decommissioning (CFAD) project

March 2025



#	Type	Question	Response
1	Project specific	The invitation letter states in its header that the study is focussed on “concrete floater analysis and decommissioning”; however, in the first paragraph, the letter states the “main aim” of the study is to “understand and validate the use of concrete floaters”. These two descriptions appear inconsistent, the latter requesting some form of “validation” and being concerned with the much wider feasibility of using concrete for FOW foundations. Please can you clarify?	The project has been titled Concrete Floater Analysis and Decommissioning to encompass as many areas within the scope as possible. The main aim stated is later broken down within section 2.3 objectives. When referring to validation on the use of concrete floaters as the main aim, it is expected that the contractor should use their knowledge, stakeholder engagement, and project research results to provide clarity on concrete types suitable to be used to build and deploy concrete floaters for the floating offshore wind industry.
2	General	ITT section 4.6: Can the 18-month programme be reduced? Are there any other dependencies driving the length of the programme	We have estimated that the required time to deliver this project is approximately 18 months. Bidders which believe they will require less time to deliver this project can apply and provide an indication of their expected delivery timeframe. Just to provide an indication of our review process during the project delivery period, once a deliverable has been submitted by the appointed contractor, we require 2 weeks to review the deliverables and provide feedback to the contractor, who will then update the report based on the feedback received. This process can normally add 3-4 weeks from the date a work package first draft is delivered until this work pack is finally closed. Hence, that should be taken into account when estimating the project delivery period.

3	Project specific	In WP 2, what is the scope boundary for the 'primary failure modes of concrete FOW floaters'? Does 'Concrete FOW floaters' include the mooring system? As this is likely to be a more likely failure mode than the concrete floater structure itself.	The failure modes boundary would be determined by the critical factors identified as part of WP 2, which could lead to the failure of a floater. If the identified critical factors in WP 2 identify the mooring system as a critical failure cause for the floater, this would then be included in the assessment described in the last three points of WP 2 scope.
4	Project specific	In WP 5, what is defined as 'different global regions'? Which regions should be considered for FOW deployment?	The regions to be examined will be decided with the Floating Wind JIP partners during the delivery of WP 1 and WP 3. The global regions to be examined in WP 5 will be dependent on the results obtained in the previous work packages.
5	Project specific	WP1 - can Carbon Trust confirm if the intent is for Contractor to complete industry engagement for all bullet point items (where relevant) or just SCMs as it is not clear from the bullet point indentation.	In reference to WP 1, the one-to-one interviews presented in the last square bullet point are in reference to the techno-economic analysis of SCMs. Contractors capable of engaging with their industry contacts throughout the project would be assessed favourably.
6	Project specific	WP3 - can Carbon Trust confirm the number of regions they wish to consider for the development of the decommissioning strategy?	The number of regions will be determined during the delivery of WP 1. Bidders are encouraged to propose and explain which regions might bring the most diverse and complete results to obtain a clear overview of multiple decommissioning strategies.
7	Project specific	In section 4 of the ITT (Scope of Work), the aim for WP4 is stated as: "provide an understanding of the lifecycle carbon emissions of previously defined decommissioning scenarios." However it's not clear in the rest of the WP3 text – is the request for lifecycle emissions of the concrete floater (including production, construction, installation, use of infrastructure and end	The full lifecycle emissions of concrete floaters are required as an outcome of WP 4 (Production, construction and installation, use of infrastructure, and end-of-life).

		of life, as indicated at the top of page 14 of the ITT), or just the lifecycle emissions of the end-of-life / decommissioning scenarios developed in WP3, excluding any other project phase?	
8	General	Could you please confirm that there are no specific conditions, prequalification or referencing required in order to submit a proposal? If so, could you precise what is required?	We do not have any prequalification criteria and do not require references from bidders.
9	Project specific	The ITT section 2.3 states: “ The main objectives of this work are to: Assess and validate various types of concrete suitable for floater buildout, with respect to long-term integrity, corrosion of reinforcements, general deterioration, cost and carbon footprint” Could you please clarify what is expected as validation in this instance. Question 1 states that we are also being asked to “validate the use of concrete floaters”... This reference to 2.2 suggests we are being asked to validate “various types of concrete”. Please can you clarify if these are 2 different and separate validation tasks?	Please refer to answer 1. The validation task within the project mostly falls within the scope defined in WP 2, where a qualitative assessment of concrete floater concepts and a simplified structural analysis of a floater should be undertaken.
10	Project specific	For structural analysis, please can you provide some indication on the complexity of models anticipated, outputs expected (Report? Stress plots) and whether a specific structure or design is envisaged (semi, barge, spar)	The expectation is to receive a report with the main results of the structural analysis. This could include data and stress plots within the report, or it could be submitted as supplementary material accompanying the report. The complexity of the model used would depend on each bidder and their capacity to utilise in-house models or other models available to them.

			The type of structure to be analysed will depend on the results from previous work undertaken by the contractor throughout the project. Bidders can propose a specific structure(s) to conduct the analysis, specifying the reasons behind their choice, or bidders can present a range of structures to analyse, allowing the FLWJIP partners to select their preferred structure to be analysed.
11	Project specific	For WP 2 to WP 5, please advise on envisaged reference floater size/capacity as this will be needed for any comparative work and carbon emission calculations	The specific floater(s) to be reviewed as part of the project including factors such as the capacity will be agreed upon with FLWJIP partners. However, it is likely that, at a minimum, the floaters analysed should be compatible with 15 MW-sized turbines but with some reference to scalability detailed within the outputs in reference to potential use on larger future turbines.
12	Project specific	WP2: Could you please clarify whether the environmental impact should be assessed solely in terms of physical impacts, or if it also encompasses critical environmental impacts?	WP 2 does not require an environmental impact assessment. The project per se does require to improve the understanding of carbon emissions of utilising concrete as the main material for floaters. In terms of physical impacts on the floater,
13	Project specific	WP3: The tender mentions a focus on multiple regions. Could you specify how many regions should be included in the assessment, and are there any particular regions of interest that we should prioritize?	Bidders are encouraged to propose any specific regions that they feel would be beneficial to the project.
14	Project specific	WP4: The title of WP4 refers to carbon cost calculation; however, the description appears to focus primarily on a standard Life Cycle Assessment (LCA). Should carbon costing be explicitly incorporated as a part of the assessment in this work package?	The Sustainability JIP guidance should be used as the basis, but this should include a review of the carbon costing as part of the analysis.

		- o The results are expected to be compared to steel. Is there a specific reference product that we should use for comparison, or will identifying a comparable steel floater be part of WP4's tasks? - o Regarding the final results, should we present them as overall emissions, emissions per year, or emissions per kWh (including the production phase of electricity for a specific wind turbine), given that tCO2/kWh is a common metric used in the wind turbine sector?	Aim of WP4 is to provide an output to support understanding the comparison between the carbon emissions of concrete and steel floaters. For the presentation of final results bidders are encouraged to propose what they deem the best format based upon their knowledge to present the results.
15	Project specific	WP5: Is there a designated target year for the roadmap's completion?	The roadmap aims to provide clarity on when concrete floaters could be deployed based on the learnings of the project, as such, there isn't an specific target date that the roadmap should aim for.
16	Project specific	In comparing the LCA results to steel (WP4), should there be additional comparisons made in the previous work packages (WP1,2 and WP3)? This seems relevant for both WP2 and WP3 as well.	If bidders deem it as potentially beneficial to undertake further comparisons in earlier work packages, then they are encouraged to detail this within their proposal with a clear justification and added value.
17	Project specific	Additionally, is there flexibility to modify or expand upon the scope of work based on insights gained during the project's execution? If so, how should such proposals be documented	Similarly to response to question 16 if bidders deem there to be an opportunity to expand and deliver further elements as part of the scope they welcome to do so and detail this within their proposal.

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