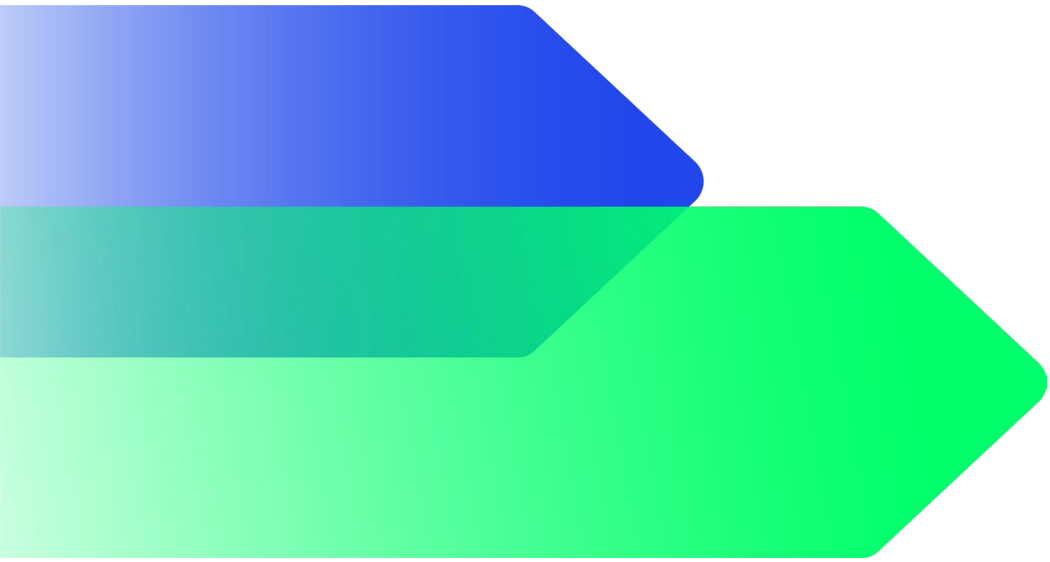
FLOATING WIND JOINT INDUSTRY PROGRAMME S3P3

Clarification Question Responses

(CTT)Technical and economic assessment of connection technologies for tubular steel floating wind foundations

03/07/2025



#	Type	Question	Response
1	Project specific	WP2 - What level of design substantiation is expected for the basic concept designs for different types of joints in WP2? Is it expected that tenderers should undertake structural analysis or are estimations of joint size/mass based on tenderer experience sufficient?	Limited structural analysis will be required. The extent of this analysis, if any, will be at the potential contractor's discretion, in line with the budget. Recommendations or additional work packages could include detailed structural analysis.
2	Project specific	Does the Carbon Trust have a specific geographic location(s) that the proposal should focus upon when making the technical and economic assessments?	It should be noted the contractor should not have to rely on previous Carbon Trust projects. These can be proposed by the potential contractor. We have no preference. We conducted a Fabrication Infrastructure and Logistics project as part of S2P5. The project methodology aimed to build an understanding of the logistics, infrastructure, and supply chain needs for commercial-scale deployment options for FOW across Asia, America, and Europe. Some of the project findings may be made available upon request once the project has commenced and a contractor has been selected. Please review the S2P5 summary report for more information here. It should be noted that the contractor should not have to rely on previous Carbon Trust projects.
3	Project spesific	To encourage engagement from suppliers, fabricators, and innovators in FOWT, will it be possible to share the project findings with those that contribute?	We release a project summary report that becomes publicly available once the project is completed. This report will mention the suppliers, fabricators, and innovators who contributed to the project's success, creating added benefit.
4	General	Will the Floating Wind JIP 15MW reference turbine OrcaFlex files be provided for this project?	Numerical models of the four floating systems have been developed in OpenFAST and OrcaFlex. Elements may vary between the two formats. Please note that these are relatively simple models.

5	Project spesific	On page 10, the description of WP1 references WP2 approach (twice). Is this just a typo?	The reference to WP1 is mentioned twice to highlight that its findings may influence the final approach to WP2. This influence could arise from stakeholder discussions or from insights gained through project learning.
6	Project spesific	Would we have access to any other relevant studies within the Floating Wind JIP, for the purposes of the market research?	The contractor can identify relevant FLWJIP work based on the project summary reports available on our website that have been released. They can request approval to share this information once the project has commenced. Please see question 2.
7	Project spesific	Is there a preferred base case floating foundation configuration(s) applicable to the study, or specific types that will not be considered – or will this be agreed during the study? E.g. to understand likely loading on the tubulars, accessibility during installation and for inspection, etc	There is no specific base case of a floating foundation configuration. This should be suggested by the potential contractor for approval by the FLWJIP partners.
8	Project spesific	Regarding providing guidance on the effect of the research on inputs to the 'Floating Wind JIP Cost Model' (WPA), can we ask for more detail on what the inputs might be?	Cost model inputs will be numerical outputs created as part of the project. We don't expect contractors to provide Background IP.
9	Project spesific	Regarding the SoW we have the feeling that there are 2 connection topics rolled into 1 project: 1. Review of connection types for connecting braces to columns. (Although there are certainly subgroups here as well.) 2. Investigation of the most critical connection (especially for 15MW – 22MW): the interface connection between Tower and Foundation Is this correct?	To clarify, the focus is on tubular interconnection technology (Point 1), rather than turbine foundation integration (Point 2), specifically connecting braces to columns. We wanted to keep the project simple and concentrate on one area. We agree that tower foundation integration is an essential part of a floating foundation design and would require additional project timeline and budget. We suggest proposing additional work package extensions to the project that include turbine transition connections. This is an approach we have taken with other projects. Well-thought-out and justified extensions or additional work are always appreciated.

10	Project spesific	For a similar project we reviewed connection types with a different setup/approach than proposed. Would you accept a different setup/approach than the proposed scope for this project?	We are more than happy for potential contractors to propose a different setup or approach to this project. Please present these proposals in a formal tender. This is why we have included the following note in the tender document: “Please note: We also invite contractors to offer differing approaches or variations to the assessment of connection technologies outlined in this document.

carbontrust.com

+44 (0) 20 7170 7000

Published in the UK: 2025