FLOATING WIND JOINT INDUSTRY PROGRAMME S3P2

Clarification Question Responses

Fixed-to-floating Wind Turbine Generator Integration Requirements (WTG-I)

February 2024

#	Type	Question	Response
1	Project specific	Based on feedback from previous WTG integration works, we are conscious that significant OEM involvement will be required to successfully complete the scope, notably concerning mating tolerances and methodologies. We believe that a good motivation will be necessary for these stakeholders to cooperate, given their typical selectivity in terms of time and means allocation. Do you envision any specific approach to mitigate the risk of poor cooperation?	The experience and staff skills of the bidder team will be scored as outlined in section 7. Prior relationships with OEMs will score highly on this aspect. The Floating Wind JIP is supported by an expert advisory group comprised of leading floating wind platform developers, turbine manufacturers and cable suppliers. We envisage the Advisory Group could be used to supplement contractor efforts for this crucial stakeholder engagement. The project was initially scheduled with an eight month time frame, but we acknowledge that this may need to be extended to accommodate scheduling requirements.
2	Project specific	Do you expect the study to include an assessment of possible floater stabilization strategies (by auxiliary crane barge, …) and/or terrestrial crane-based compensation strategies?	We welcome input from the bidder if you believe that the assessment of stabilization strategies would bring value as part of the wider delivery. The objectives of the WTG-I project are to: • Define a tolerance range and limiting factors for the safe integration of WTGs at quayside; • Engage with key stakeholders to understand risks and mitigation factors for the proposed tolerances; • Develop guidance for WTG integration at quayside, outlining the conditions and parameters where it is feasible to carry out WTG integration procedures.

3	Project specific	Could the study include the WTG construction phase hybridisation with upcoming floating MCR solutions? (e.g. WindSpider, Dolfines OHMe, …)	WP3 includes: *The contractor should investigate novel solutions which could mitigate risks raised during the collaboration workshops. The simulations should be remodelled to include novel solutions, to demonstrate if this leads to a smaller range of allowable outputs.* It is expected that novel solutions will be explored to understand how they could contribute to a smaller range of allowable outputs, as is the overall objective of the project (see response to #2).
4	Project specific	Section 4, in the table describing WP1, the following bullet point mentions: *Using a suitable modelling package, as proposed by the contractor, perform the defined simulations to determine the relative motions of lifts for different scenarios, that can take into account the hydrodynamic interaction with the Quay. The contractor should look into how they would obtain data sets for the two locations and propose their modelling methodology for conducting the simulations.* Could you clarify what do these two locations refer to?	There is an error in the ITT. This should read: "*Using a suitable modelling package, as proposed by the contractor, perform the defined simulations to determine the relative motions of lifts for different scenarios, that can take into account the hydrodynamic interaction with the Quay. The contractor should look into how they would obtain quayside data and propose their modelling methodology for conducting the simulations."* The ITT will be updated on the tender webpage.
5	Project specific	Throughout the documentation provided, quayside integration is mentioned as the solution to integrate the turbine as a fixed-to-floating solution. However, using a Jack-up-Vessel would mean to have a fixed-to-floating solution too. Could you confirm that only integration from the quayside with a land crane will be object of the study?	Fixed-to-floating in this instance refers to a floating substructure, as opposed to a grounded substructure at quayside. Only quayside integration will be the objective of this study.

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