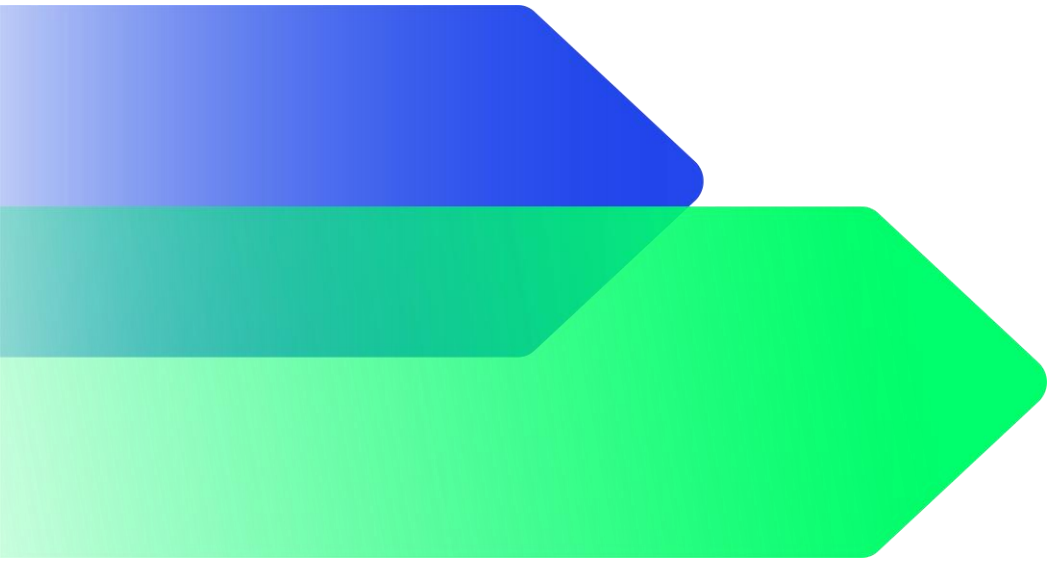
CARBON TRUST

OFFSHORE WIND ACCELERATOR S4Y3

Clarification Question Responses

TWG-Y – Floating LiDAR Turbulence Intensity

May 2022



#	Type	Question	Response
1	Project Specific	Could you please specify the goal of work package 3 and the expected outcomes in more detail. E.g., do you expect a data analysis with the goal to quantify TI uncertainty for different motion compensation methods, different lidar/buoy types? Or do you expect one data set to be analyzed exemplary for one buoy type with one compensation method?	As stated on p7 of the "Description of Tender" document, one of the main objectives is "Undertaking an assessment of TI accuracy from analysis of data". Ideally this would encompass all commonly-used buoys types and LIDARs under a wide range of metocean conditions; however, it is recognised that there are practical limits on what can be achieved with the time, budget and data available. Bidders should propose an analysis methodology that maximises progress towards the ultimate goal, i.e. "allow[ing] site-specific offshore TI measurements without requiring met masts"
2	Project Specific	On page 10 you mention "Studies of other attempts to measure turbulence intensity" in the description of work for WP1. We cannot imagine anything under these "other attempts" – could you give an example?	There are a number of studies available on measuring turbulence intensity via FLS or from other moving platforms. Please find the reference below as an example. 'Taking the Motion out of Floating Lidar: Turbulence Intensity Estimates with a Continuous-Wave Wind Lidar', [Online], Available at: Remote Sensing | Free Full-Text | Taking the Motion out of Floating Lidar: Turbulence Intensity Estimates with a Continuous-Wave Wind Lidar (mdpi.com)
3	Project Specific	The formulation "an assessment of the maturity of motion correction methods that have been proposed should be undertaken" in the description of work for WP4 is not very clear. Could you please clarify by whom these methods should have been proposed, i.e., by the FLS OEMs, in the	The ultimate goal is to enable the OWA Partners to derive usable turbulence intensity data from floating LIDAR measurements. These methods may be ones implemented by an OEM, identified in the literature or developed on this project. Regardless of the origin, the OWA Partners need to

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		literature, or within this project (or by the bidder, respectively)?	understand how mature and robust each methodology is, and how they would go about adopting it.
4	General	Which frequency do you expect for “regular update calls with the Carbon Trust Project Manager and/or Technical Working Group” mentioned on page 12?	The Carbon Trust will hold fortnightly catch-up meetings with contractor’s project managers so that OWA Technical Working Group mangers can provide support and keep track of progress. Additionally, the OWA runs a Technical Working Group meeting with the partners every 6 weeks. This is an opportunity for contractors to provide updates and discuss the direction of the project and project deliverables.

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Published in the UK: 2022