Stand: 16-06-2025

IEA Wind TCP Task 52 (Wind Lidar)

Working Group #9: Floating Lidar

Objective: This group will address critical technical questions relevant to the operational deployment of Floating LiDAR Systems (FLS) incl.

- **TRL and Bankability:** Evaluate TRL and verify bankability of "stage 3" FLS.
- **Data Quality Requirements:** Define consensus standards on required data availability (%) and accuracy (uncertainty in m/s or %).
- **Campaign Design:** Recommend quantity and scope of FLS campaigns for reliable resource assessments (e.g., DE/NL/UK North Sea).
- **Technology & Machine Learning:** Identify technical limits of FLS and evaluate the effectiveness of machine learning methods for FLS data processing.
- **Uncertainty Benchmarking:** Quantitatively compare uncertainties from FLS measurements and reanalysis data; establish consensus on acceptable levels.

Deliverables:

- Consensus document directly addressing and answering the stated technical research questions.
- Summarized minutes (5–8 minutes per meeting), capturing key discussion points, decisions, and agreed actions.

Approach:

- Monthly structured online meetings to foster detailed technical discussions, reach consensus, and track progress effectively.
- Ad-hoc specialized sub-group sessions as required for deeper analysis and focused expert input.

Timeline:

- Initial activities begin July 2025; consensus document draft expected early 2026.
- Decision on extension.

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