

ENERGY

# IEA Task 32 Round Robin on 12-1 Ed. 2 Power Performance Measurement Uncertainty using Lidar

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- The main objective of Task 32 is to identify and to mitigate barriers to the use of lidar technology in wind energy applications such as site assessment, power performance, loads & control, and complex flow.
- Task 32 will invite industry stakeholders to participate in an exercise applying the methods from CDV IEC 61400-12-1 Ed. 2 (Doc. 88/562A/CDV dated 06 November 2015) to evaluate the uncertainty of power performance measurements using lidar.
- In parallel to the exercise being performed the Power Curve Working Group (PCWG) will be developing analysis examples to be made publically available to the wind industry.
- Further, preliminary and final results of the round robin will be presented at industry meetings (e.g. Power Curve Working Group meetings) and a workshop will be held for industry stakeholders to discuss the results but also the general value of using lidar for power performance with some focus on achieving a lower uncertainty.

- **June 15 – July 1:** Distribute exercise to participants
- **July and August:** Allow participants to submit questions, IEA provides clarifications. Results are due by Sept 1 in order to prepare summary at PCWG meeting in Pamplona on Sept 7.
- **September:** Collect and compare all results. Provide summary to the group, identify sources of variability and finalize PCWG analysis examples.
- **November:** Request second round of results to be submitted.
- **December:** Collect final results, prepare summaries for PCWG meeting and workshop in Glasgow week of 12 December 2016.



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