

WINDCUBE®

VALIDATION SERVICE

Service Description:

NRG Systems offers a Lidar-to-Lidar (L2L) Performance Validation service for Windcube Vertical Profilers. This service is essential for customers requiring a traceable record of Lidar accuracy and performance before or after critical field campaigns, especially where on-site validation against a reference measurement may be impractical or impossible.

Windcube Vertical Profilers enrolled in an L2L Performance Validation will be tested alongside NRG's "golden" reference Windcube for a period of 10-20 days depending upon atmospheric conditions. The reference Windcube is in turn periodically calibrated against a met mast at Danish Technical University (DTU). New Windcubes shipped from the manufacturer (Leosphere SAS) are compared to NRG's reference Lidar as an ongoing performance check of both the new Lidars and the reference Lidar.

The following measurements are compared between the reference Lidar and Lidar under test:

	40m	80m	100m	120m	160m
Horizontal Wind Speed (HWS)	X	X		X	X
HWS Deviation (Mean Bias)	X	X		X	X
Standard Deviation of HWS Mean Bias	X	X		X	X
Wind Direction			X		

A results report will be issued following the measurement comparison period which will state whether the test Lidar passed or failed the performance metrics at each height and for each measurement or derived value.

In the case of failure of one or more performance metrics, the customer may elect to have NRG perform additional investigations and/or repairs of the Lidar. These additional actions, if required, will be the subject of a separate agreement.

What is included?

- Basic functional system check.
- Performance validation against NRG reference Lidar.
- Validation report issued following the measurement comparison period.

What is not included?

- Shipping cost of customer Lidar to and from NRG.
- Investigation and/or repair of customer Lidar in the case of one or more failed performance metrics.



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