

Trusted measurements in complex terrain

Accurate, finance-grade
wind measurements across
the world's most challenging
terrains.





By combining ZX 300e Lidars with proven CFD methodologies, developers achieve finance-grade data in complex flow, directly comparable to traditional met masts and accepted by consultants worldwide.

Methodology at a glance

- Lidar Measurements: ZX 300e captures volumetric wind data across hub-height ranges.
- Conversion: CFD models simulate terrain effects, generating conversion factors.
- Cup Equivalence: Post-processed Lidar data aligns with mast measurements, reducing deviation to <1%.

Validations and acceptance

- Over 140 independent validation campaigns in complex terrain worldwide.
- Results consistently show <1% deviation from mast data after CFD conversion.
- Fully aligned with international standards (IEC 61400-12-5, MEASNET).
- Bankable and accepted by leading consultants, turbine OEMs, and financiers for standalone EYAs and site suitability assessments.



Independent consultants

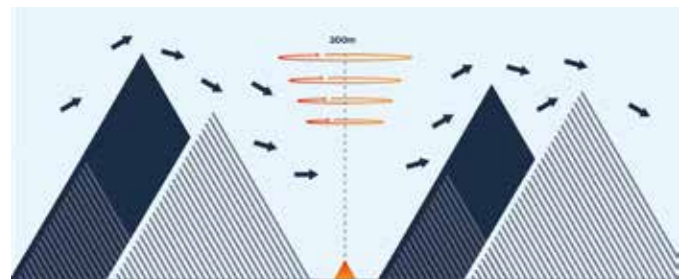
Proven methodologies are available from leading experts including Deutsche WindGuard (CFS), Meteodyn (WT), DNV (FCC), WindSim (FCC), Natural Power (Dynamics), and Ramboll (CFD).

Each applies advanced flow modelling to align ZX 300e's volumetric data with mast-equivalent point measurements, ensuring finance-grade accuracy in complex terrain.

ZX advantage

- ZX 300e uniquely records up to 50 independent Line of Sight (LoS) measurements every second.
- This high temporal resolution minimises the impact of small-scale distortions and delivers consistent, reliable measurements.
- Fully independent conversion allows transparency from start to finish. Conversions can be generated before, during or after a measurement campaign.
- Full CFD modelling in all conversions avoids errors and over-simplification in marginal locations

ZX 300e is the proven solution for complex terrain: a flexible, validated, and finance-ready way to measure wind where it may matter most.



Visit us at zxlidars.com

