

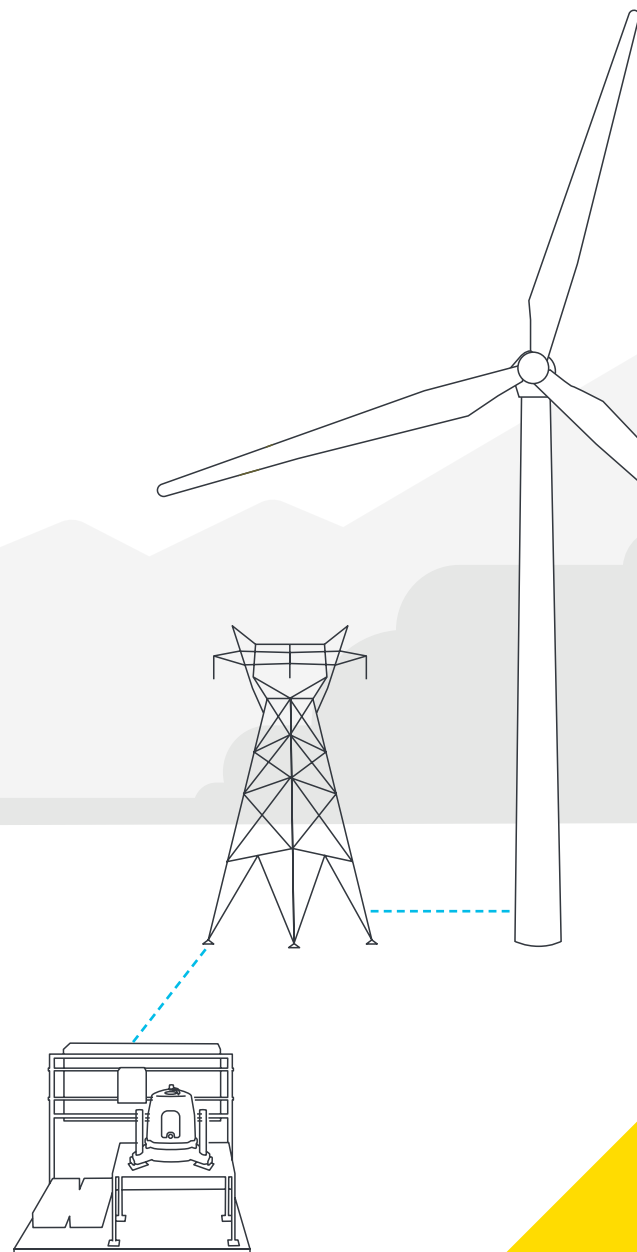
STAND-ALONE LIDAR FOR OPERATIONAL WIND MEASUREMENTS

ZX 300 LIDAR + POWER SUPPLY + COMMUNICATIONS + FULL LIFECYCLE SUPPORT

NRG Systems' stand-alone Lidar solution is designed to optimize wind project performance, enabling precise power curve tests and operational measurements - without the high costs and permitting complexities of hub-height towers.

Key Benefits:

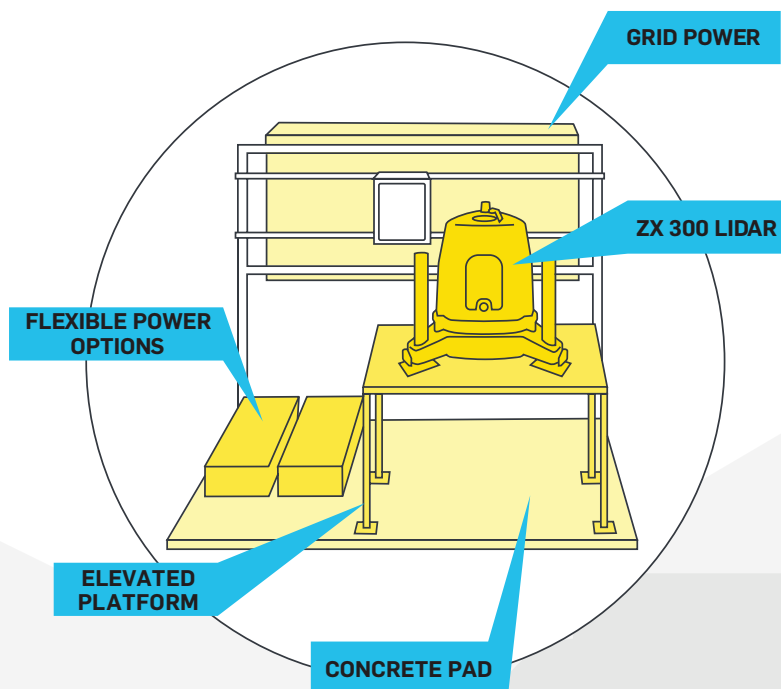
- **Comprehensive end-to-end solution:** From system design and project coordination to field installation and integration, NRG handles it all – including transportation logistics, project management, and delivery of final IEC verification reports – saving you time and resources. All backed by lifetime customer support.
- **Reliable power and communications:** Tailored solutions ensure high data availability in any environment, with autonomous power options offering standard 1–3-day coverage and up to 7 days of backup in case of outages.
- **Minimized downtime:** A standard five-year warranty and maintenance schedule simplifies plant management schemes and keeps your system running smoothly.
- **Full rotor sweep measurements:** Spanning 10 to 300m, our Lidar solution captures the entire rotor sweep of modern turbines, regardless of tower height or rotor size. This comprehensive range delivers more representative data than solutions with limited vertical coverage, enabling confident performance assessments across turbine types.
- **Real-time data delivery for SCADA and grid operations:** Continuous hub-height measurements feed directly into SCADA systems, enabling grid notifications, regulatory compliance, and more accurate production forecasting.



Integrated System Design:

- **Flexible power options:** NRG experts will determine the ideal back-up power solution to meet your site's specific power, climate, and autonomy requirements, with options including PV and/or battery-based systems.
- **Seamless communication:** Available with MODBUS TCP for seamless SCADA integration.
- **Secure installation:** The Lidar is mounted on an elevated platform anchored by a concrete pad, with a dedicated housing for power, communications, and accessories.

Example configuration shown, multiple options available to suit customer needs.



NRG: The World's Only Authorized Third-Party ZX Lidars Service Center

Since 2019, NRG Systems has provided unparalleled support for ZX Lidar-based wind resource assessment and operational measurement campaigns globally. Our ZX Lidars Service Center prioritizes ease and efficiency with services including:

- Support for all generations of ZX Lidars
- Routine major services, including inspection and update service complete with overall health assessment and relevant free software updates
- Lidar-to-Lidar verifications against an IEC-compliant reference unit as well as facilitation of verifications against an offsite, IEC-compliant met tower
- Logistics services to manage the safe transportation of customer units
- Access to NRG's expert Lidar team, providing real-time support, training sessions, and more

For more information:

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