



Ensuring Structural Integrity FOR Renewable Generation

In the world of renewable energy generation and transmission, the ability to count on the structural integrity of your assets is a must. Here, inspection details mean everything to eliminating costly downtime and safeguarding against catastrophic failures. No one knows the details of sustaining your assets better than Exo.

Exo's expertise in tower and infrastructure inspections helps you uncover manufacturing defects, aging or fatigue related issues, and other damaging effects on aging structures. Our comprehensive analysis determines if one of your assets needs to be remediated or replaced, and we can implement a long-term maintenance plan designed to help prevent further failures while saving you money.

We leverage over 100 years of professional expertise along with the latest technologies so you can ensure structural integrity, prevent failures, prolong life span, and keep your assets operational.

Renewable Generation Industry Expertise:

- Wind turbine blade inspection
- Wind tower inspection & field repair
- Solar equipment inspection & field repair
- Hydroelectric infrastructure
- Balance of plant & transmission inspection
- Storm damage assessments
- Aerial safety walks
- Inspection & field repair
- Cloud based data analytics



ENSURING STRUCTURAL INTEGRITY

Our Approach

When it comes to structural issues on critical infrastructure, Exo's knowledge base runs deep. We know what issues could be hiding underneath the surface of 24/7 asset operation, and we know how to uncover them. Whether it be vendor surveillance, inspections or comprehensive program management, we go beyond the routine because that is where true value exists for our clients. We combine a myriad of non-destructive inspection methods (including drones) performed by ASNT and FAA certified technicians to inspect every facet of your asset.

For balance of plant and transmission projects, we perform hybrid inspections that cover the system from the ground and the air. While one technician evaluates the foundation of a tower for structural integrity (base plate weld cracks, anchor bolts, corrosion, erosion, wood pole decay, etc.), the other inspects from above using a drone to check for loose or damaged hardware, electrical component failure, or similar structural problems that may exist hundreds of feet up in the air.

For wind turbine blade inspections, our teams capture high resolution visual imagery that covers the entire surface of the blade. The captured data is reviewed closely to reveal even the smallest (but still potentially catastrophic) defects. With the use of drones, equipment downtime is reduced, probability of detection is increased, and overall project safety is improved by allowing the technicians feet to remain safely on the ground.

All valuable inspection data is securely stored, analyzed, and accessible online 24/7 through **Exo Link – our cloud-based asset management portal.**

Inspections May Include:

- Drone-based visual inspection
- Ultrasonic / magnetic particle / dye-penetrant testing
- Wood structure decay inspection
- Coating inspection
- Corrosion assessment
- Structural engineering support
- Specification / design review
- Forensic failure analysis
- Expert witness

Reports Provide:

- Independent, expert analysis
- Actionable data to execute maintenance programs
- Recommendations on repair / replace protocols
- High quality data
- Asset health ratings based on proprietary algorithms

Repairs Provide:

- Welding (ground-based and aerial)
- Structural repairs and upgrades
- Corrosion and coatings remediation
- Foundation/concrete repairs
- Electrical line maintenance services

Select Valued Clients



ENSURING STRUCTURAL INTEGRITY

Contact Exo to safeguard your assets now, and get a sound maintenance plan for the future.

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