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Engineering and Metrology Services Company Provides Long Range Scanning / 3D Laser Mapping for Large Utility

Engineering and Metrology Services Provider, 3D Engineering Solutions, Uses Advanced Long-Range Scanning Technology for Detailed 3D Facility Mapping of 19+ Installations Targeted for Retrofit by One of the Largest U.S. Utilities.



Long Range Scanner 976,000 points/per second

Cincinnati-based 3D Engineering Solutions (3DES) recently provided [long range laser scanning](#) and 3D laser mapping services for a Fortune 100 utility company delivering electric power to more than 5 million customers in the Midwestern U.S. Using advanced long range laser scanning technology, 3DES was able to develop a detailed 3D map of the utility's facility infrastructure that was targeted for retrofit. This method provided the utility with a streamlined solution to the traditional 2D data collection process, which would have required dispatching engineering teams to remotely located facilities and resulted in incomplete information with subsequent site visits.

Specializing in advanced [3D laser scanning](#), data collection and CAD modeling services, 3D Engineering Solutions demonstrated the comprehensive, fast and accurate detail delivered by long range scanning and was contracted by the utility to perform on-site 3D laser mapping of over 19 installations within a remote power facility.

"In a matter of a few days, collecting 3D data at a rate of close to a million points per second, we were able to provide detailed and accurate 3D model data to our customer on-time and under budget," noted 3DES Project Engineering Manager, Rob Glassburn, P.E. "One of the exploding markets for 3D Engineering is 3D laser mapping of buildings and facilities. Customer requirements for facility mapping often go beyond the old school 2D surveying and require precise 3D CAD modeled measurement data. Our ability to collect and integrate 3D data utilizing multiple types of touch-less, laser based devices provides us with greater flexibility, allowing us to meet more demanding customer needs."

About 3D Engineering Solutions:

Customers rely on 3D Engineering Solutions to design process tooling and fixtures for the automotive, industrial, green energy, nuclear and aerospace industries, using engineering tools such as Unigraphics NX7 Mach 3 CAD platform, with data transfer via 3D's secure FTP site. Leading edge point cloud software, InnovMetrics PolyWorks allows a common software platform for collecting data across all of Faro laser-based data collection platforms. In addition to reverse engineering services, 3D Engineering Solutions is registered with the State of Ohio for Professional Engineering and [ISO 17025 Certified](#) for third party inspection. In their 5th year of operation, the company maintains a state-of-the-art, climate controlled metrology lab; servicing the Midwest OEM needs for 3D laser scanning, data collection, 3D CAD modeling, FAI / [PPAP inspection](#), and reverse engineering services. 3D Engineering Solutions brings more than 100 years of collective experience to every engineering project. For more information about Long Range Laser Scanning services or general information about 3D Engineering Solutions, call 513-771-7710 or visit the company's website at:

<http://www.3D-engineering.net>