

Chinese Oilfield Tracking 30,000 Assets with Xerafy Read-on-Metal RFID Tags

New asset management and inspection system helps comply with safety regulations and improves maintenance management.

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/EINPresswire.com/ -- A major Chinese oil field operator is using [Xerafy](#) RFID tags to track up to 30,000 portable transformers in the largest outdoor RFID deployment in China's oil and gas industry. The operator, an exploration and production company that wishes to remain anonymous, is applying Xerafy's passive UHF read-on-metal RFID tags to all 30,000 portable transformers it has at the site and plans to expand the RFID program to other asset categories including pipes, valves and machinery.



Xerafy's [Cargo Trak](#) tags are being applied to portable transformers with permanent adhesive as part of a new automated inspection and maintenance management system that was developed and implemented by VictorySoft Co. Ltd., a Xerafy partner that specializes in IT solutions for the oil and gas industry. The customer wanted to upgrade its asset management processes because it needed to comply with new national safety and maintenance regulations. Transformers were especially difficult to track and manage because they are moved frequently. New safety standards developed by China's State Administration of Work Safety (SAWS) took effect in 2013 require oil companies to keep better records on assets and maintenance history. The new system will support predictive maintenance besides improving compliance with safety and record-keeping requirements.

Using mobile computers and RFID readers, inspectors and technicians can automatically identify transformers from up to 12 meters (39 feet) away. The exceptional read range for the Cargo Trak tags is an important safety feature for this project, because some transformers are mounted at heights where workers cannot easily reach or in areas that are dangerous because of heat, pressure and other conditions. The oil field operator had considered using RFID technology to automate asset management and inspections for several years, but could not find tags that would last in the environment and could be read from a safe distance.

"This project is a great example of how RFID innovation can help companies create safer, more efficient processes," said Dennis Khoo, Xerafy's founder and CEO. "We have helped many companies in the oil and gas, nuclear power and other industries to RFID-enable challenging processes in extreme environments where other automation approaches don't work."

A more detailed case study about the project is available at:

<http://www.xerafy.com/userfiles/misc/resources/whitepapers/SINOPEC%20Case%20study.compressed.pdf>

"By using RFID tags to identify the outdoor assets, the problems of accidental damage and lost bar codes or other markers are solved. The RFID system has effectively improved the safety of field operations," said Xu Haiting, general manager of VictorySoft's technical development department. "Xerafy's Cargo Trak tags have a lot of advantages for this application. They are durable, easy to install and have a very long read range."

Cargo Trak tags meet EPCglobal® Gen 2 and ISO 18000-6C standards tag that can be permanently applied to metal and non-metal objects and can be read from up to 12 meters (39 feet) away. They are IP 68 rated to provide extreme resistance against fluids, dirt and other abrasives, and have an operating temperature range of -40°F to +185°F (-40°C to +85°C).

About Xerafy

Xerafy's innovations have changed the price-performance ratio for RFID tags and made it possible for customers to track assets in a wide range of harsh environments. Xerafy provides read-on-metal tags that can be embedded directly into assets to meet a full range of needs for RFID asset tracking in the aerospace, industrial, data center, healthcare, energy and other industries. Xerafy is headquartered in Hong Kong and maintains U.S. sales and support offices in Dallas and Minneapolis and China.

Learn more about Xerafy by visiting www.xerafy.com.

About VictorySoft

VictorySoft Co., Ltd. is a professional high-tech IT solution provider for oil field. Established in January 2002, with a registered capital of 2.1B RMB, VictorySoft has headquarters in Dongying city of Shandong Province, a research and develop center in Jinan, branch office in Beijing, and satellite offices in Xinjiang, Sichuan, Central China (Henan). In addition it has four wholly-owned subsidiaries, including an overseas company: Beijing GOSHAWK Petroleum Software Co., Ltd., Qingdao Creation and Technology Development Co., Ltd. Victorysoft Petroleum Technology Development Co., Ltd. and V-Petrotek, LLC (U.S.).

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John Burnell
Xerafy
+1 216.571.2319
[email us here](#)

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