

CASE
STUDY



Enhancing Operational Efficiency and Safety for Fortune 500 Energy Solutions Provider



Key Challenge

A leading global energy solutions provider in Europe faced challenges in monitoring employee movements around critical wind blade production stations. Given the complex and delicate production process, with multiple stages and varying platform heights, the company needed a system that could efficiently track personnel for both operational efficiency and safety. Workers operated across different levels simultaneously, increasing the difficulty of ensuring proper workforce planning, resource allocation, and adherence to safety protocols. Additionally, there was a need for real-time insights into employee locations and movement patterns to improve root cause analysis in the event of turbine failures.

Solution

Litum implemented a comprehensive Employee Tracking solution designed to meet the unique needs of the production environment. The system monitors the location of employees using sub-meter accuracy, enabling real-time tracking and detailed reports, including zone transactions, spaghetti diagrams, and heatmaps. By dividing the facility into distinct regions and utilizing a network of anchors and gateways, the solution captures employee movements at different heights and across multiple work stages. Free-fall and immobility detection ensure a rapid response in the event of accidents, while low-battery alerts and tag on/off notifications provide additional layers of safety and operational continuity.



Features



Workforce Monitoring: Real-time tracking of employee locations.



Zone Monitoring: Tracking entries and exits in specific areas to ensure adherence to safety protocols.



Fall and Immobility Detection: Detecting employee falls or extended immobility to trigger immediate alerts for rapid response and minimized safety risks.



Out-of-Sight Alerts: Monitoring employees who work in isolated or hard-to-view areas, issuing alerts if they remain out of sight for extended periods, for added workforce safety.



Tag Battery and Status Monitoring: Real-time updates on tag battery levels and status, including low battery and tag on/off alerts, for continuous functionality and reliable tracking.



System Maintenance Alerts: Notifications for anchor and gateway drop events, ensuring the network infrastructure always remains fully operational.



Safety and Efficiency Dashboard: Centralized platform with reports for zone transactions, tag battery levels, and spaghetti diagrams for monitoring and decision-making.

Results



15% improvement
in operational efficiency



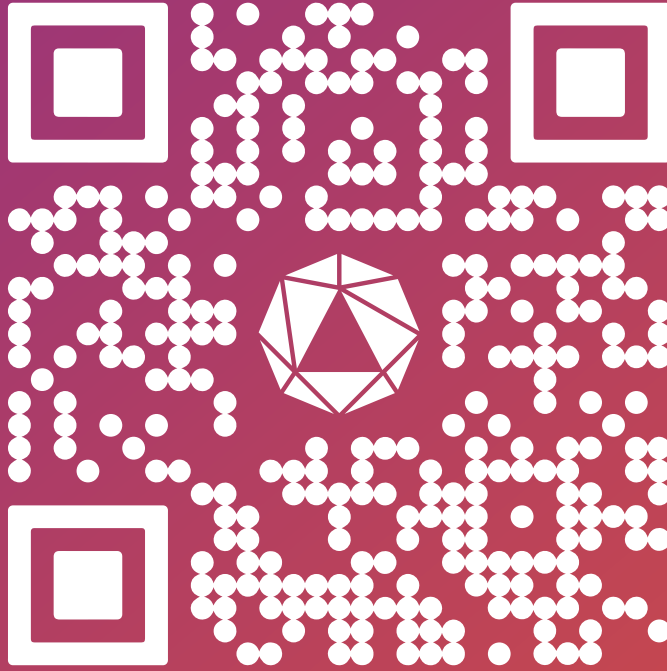
12% reduction
in maintenance-related errors

The deployment of Litum's Employee Tracking solution has empowered the company to optimize resource and workforce planning, leading to a 15% improvement in operational efficiency. Detailed insights into employee movements, combined with advanced tracking features, have enabled the company to reduce downtime caused by production delays. The system's safety features, including free-fall detection and immobility alerts, have resulted in faster responses to safety incidents, significantly lowering the risk of severe injuries on site.

In addition, by monitoring zone entry and exit data and analyzing movement patterns, the company can now pinpoint potential causes of turbine failures with far greater precision. This has helped them reduce maintenance-related errors by 12%. Overall, Litum's solution not only enhanced operational productivity but also strengthened safety protocols, offering the potential for long-term scalability across other production sites globally.



Scan to Watch How Litum's Employee Tracking RTLS Works



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