



**Lake Turkana Wind Power Optimizes Asset and
Workorder Management with eFACiLiTY®
EAM/CMMS Software**





The Challenges

Managing one of Africa's largest wind farms presented unique operational challenges that required innovative solutions.



Asset Tracking and Digitization

With over 1,500 critical assets to manage, the absence of a digital system made it difficult to maintain accurate records and quickly identify performance issues.



Manual Inventory Management Affecting Maintenance Readiness

Managing more than 3,000 inventory items manually, without real-time visibility into stock levels, often resulted in either stock shortages or excess materials, impacting maintenance schedules and performance.



Audit and Compliance Challenges

Manual tracking of maintenance and inventory activities complicated audit readiness and made compliance reporting time-consuming and error-prone.



Operational Inefficiencies Due to Lack of Automation

Without automation, managing workflows such as work order generation, material requests, and asset tracking was time-consuming, leading to delays in addressing critical tasks and suboptimal performance.



Inefficiencies in Operations and Sustainability Alignment

The heavy reliance on outdated and fragmented workflows created a disconnect with LTWP's sustainability objectives, leading to inefficiencies, delays, and unnecessary resource wastage, undermining efforts to maintain eco-friendly practices.



Scalability and System Flexibility

LTWP needed a system that could grow with their evolving needs and support future operational enhancements without requiring complete overhauls.

These operational challenges made it difficult for LTWP's management team to prioritize tasks and make timely decisions, increasing the risk of delays and inefficiencies.

eFACiLiTY® Implementation for LTWP

Lake Turkana Wind Power (LTWP) selected eFACiLiTY® Enterprise Asset Management Software (EAM/CMMS) for its robust capabilities in managing a wide range of facility and operational assets. The software helps optimize asset performance, streamline maintenance, and enhance overall operational efficiency. It supports LTWP by providing a comprehensive solution that meets its needs across wind power infrastructure and beyond:



Workorder Management

Automated scheduling, tracking, and completion of maintenance tasks, ensuring clear visibility into ongoing and upcoming work. Centralizing work orders on a single platform enabled timely task completion, directly reducing downtime.



Centralized System

eFACiLiTY® integrated asset tracking, work order management, and inventory management into one platform, eliminating inefficiencies and providing LTWP's team with the tools to prioritize and execute tasks confidently.



Inventory Management

Real-time tracking of spare parts and consumables, allowing proactive management of inventory levels. This ensured the right parts were always available, minimizing delays and enabling quick repairs.



Audit & Compliance

Automated tracking of maintenance and inventory activities ensured quick access to accurate data for audits, streamlining compliance and reporting processes and ensuring regulatory requirements were met with ease.

By implementing eFACiLiTY®, LTWP streamlined its operations, minimized downtime, and significantly improved the overall efficiency of its wind farm operations.



Benefits

Following the deployment of eFACiLiTY®, Lake Turkana Wind Power (LTWP) experienced significant improvements, which directly addressed the challenges they faced:

End-to-End Digitization



Substation and power collector network infrastructure fully digitized for streamlined asset management.

Improved Operational Efficiency



Automation of critical workflows such as work order generation, material requests, and asset tracking.

Rapid Implementation



Fast deployment completed in just 3 weeks with minimal disruption to ongoing operations.

Seamless Integration



Smooth adoption into existing operations with no major process overhauls required.

Enhanced Inventory Management



Streamlined tracking of materials and spare parts, minimizing delays and inefficiencies.

Benefits

Reduced Paperwork



Significant drop in manual paperwork, aligning with LTWP's sustainability goals.

Increased Auditability and Compliance



Strengthened audit trails and compliance readiness with comprehensive tracking features.

Improved IT Security



Enhanced controls and transparency in maintenance operations with secure digital records.

Support for Sustainability Object



Digital shift contributes to eco-friendly, paperless operations aligned with green energy principles.

Scalability for Future Growth



Foundation laid for adopting additional modules to further enhance operations.



Benefits

These outcomes not only enhanced operational efficiency but also **empowered the management team** to focus on **strategic decision-making**, rather than getting bogged down by administrative complexities. The system provided the tools needed to improve responsiveness, transparency, and overall productivity.

Lake Turkana Wind Power's collaboration with eFACiLiTY® demonstrates how tailored asset management software can turn complex operational challenges into streamlined workflows. Automating work order and inventory management has helped LTWP **increase operational resilience, enhance sustainability, and boost overall productivity.**

Ready to Transform Your Operations?

See how eFACiLiTY® can revolutionize your asset management
and operational efficiency

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eFACiLiTY®

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sustainable built environments!

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