Accelerating digital transformation

Asset & work management, powered by Lumada
The most basic mission of any organization is to keep operations efficient, work optimized and assets performing at their peak. This mission is also an endless challenge as assets age, the workforce transitions, and demand for additional output increases.

Introducing asset and work management, powered by Lumada

The asset & work management software portfolio enables asset-intensive industries to be more adaptive, collaborative, insightful and predictive.

More than a system, it’s an ecosystem that embraces your existing technologies, enabling you to gain the benefits of the latest technological advances without sacrificing the investments you have already made.
More than a system. An ecosystem.  
Three core components:

LUMADA APM  
Asset Performance Management

LUMADA EAM  
Enterprise Asset Management

LUMADA FSM  
Field Service Management

APM is designed to provide health and performance insights to prevent critical asset failures while optimizing asset lifecycle costs. Leverage online and offline data to drive more intelligent, risk-based approaches to asset management.

EAM delivers business outcomes at a sustainable and superior cost of operations and capital investment. EAM instills best practices and processes to help you manage assets from day to day and throughout their lifecycle.

FSM is a highly scalable and intuitive inspection, maintenance, and repair application. Designed for asset-intensive environments like substations, FSM equips mobile users to execute work orders in the field with optimal efficiency.

The asset & work management portfolio offers the latest software development and delivery paradigms, with a modular architecture that is designed to support customer needs for agile delivery in a changing market. Customers can deploy precisely what is needed, when it is needed—this “selective consumption” model liberates customers from the forced “rip & replace” upgrades of the past.

The solution is interoperable with our customers’ investments in other complementary solutions. For maximum flexibility and choice, the solution is available via the cloud or on premises.
Flexibility and adaptability to handle the challenges of today and tomorrow

### PROVEN OPERATIONS AND INFORMATION TECHNOLOGY SOLUTIONS

<table>
<thead>
<tr>
<th>Analyzing &amp; optimizing</th>
<th>$4T of assets every day</th>
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<th>Controlling and protecting</th>
<th>30% of networks globally</th>
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<tr>
<th>Improvement</th>
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<td>10% reduction in asset running costs</td>
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<td>15% improvement in asset availability</td>
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<td>20% improvement in labor productivity</td>
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The combination of Hitachi Energy’s purpose-built business applications with Lumada’s ecosystem of leading technology, domain and services expertise directly addresses the evolving needs of a broad customer base and delivers additional business outcomes to customers.
Lumada APM
Asset performance management

Lumada APM monitors asset health by comparing conditional readings with asset-specific data modeling to provide a comprehensive view of fleet performance. The solution uses advanced machine learning technology to predict, prescribe and prioritize asset maintenance, management and investment decisions based on performance indicators. Lumada APM ensures that “maintain, repair or replace” decisions are soundly based on actual asset conditions and their criticality to operations.

**BENEFITS:**

- Industry-leading performance models incorporate the expertise of over 60 years of servicing critical industrial equipment of all manufacturers
- Machine learning capabilities enable users to test hypotheses and validate assumptions using their own data
- Out-of-the-box integration of short-term work (maintenance) with Lumada EAM and Lumada FSM or third-party vendors using standard adapters
- Open model interface enables extensibility to incorporate third-party models, a customer’s own algorithms or to extend Hitachi Energy’ performance models
- Allows users to build their own dashboards using Microsoft Power BI for customizable insights
Lumada EAM
Enterprise asset management

Lumada EAM is a purpose-built solution that delivers business outcomes at a sustainable and superior cost of operations and capital investment. Lumada EAM is designed to support the largest and most complex operational environments with highly robust functionality.

Combining built-in best practices in asset management and industry-specific expertise, Lumada EAM enables peak operational performance and continuous process improvement in line with ISO 55000 recommendations.

**BENEFITS:**

- End-to-end best practices for the day-to-day and lifecycle management of assets and work
- Solution flexibility to accommodate even the most complex workflow processes
- Consolidated graphical views and easy-to-use organizing and scheduling capabilities deliver better visibility to coordinate work activities for both short- and long-term planning
- Empowers people to respond faster and make better decisions about assets that directly impact the bottom line
Lumada FSM
Field service management

Lumada FSM is a highly scalable and intuitive inspection, maintenance and repair application. Designed for asset-intensive environments like substations, Lumada FSM equips mobile users to execute work orders in the field with optimal efficiency.

Thousands of mobile technicians and dispatchers rely on Hitachi Energy’s mobile field service management solutions every day to solve their toughest field challenges. The net effect of their feedback is a comprehensive solution proven to increase productivity, reduce costs and contribute to better asset reliability.

Lumada FSM is designed specifically to extend the efficiency of the EAM process directly to the assets it supports, and drive asset management fieldwork productivity and worker safety.

**BENEFITS:**

- Two-way delivery of critical maintenance information including visual confirmations
- Mobile access, hands-free headset and voice-activated forms
- Self-dispatch functionality enables workers in the field to sequence work as required for the situation at hand
- Work anywhere with support for connected and disconnected modes – orders sync automatically when the user re-enters a coverage zone
- Low IT footprint