



GE VERNOVA

APM DRIVING RELIABILITY FORWARD

Take control of downtime with APM Reliability.

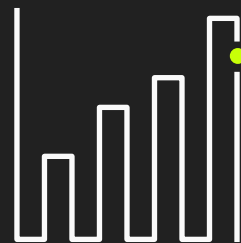
Experience operational excellence
through predictive diagnostics.



BUSINESS CHALLENGES

The external environment—including a flat global economy, pressure to grow revenue and profit, tighter regulations, and increased competition—has significantly changed the way assets are operated. But internal inefficiencies, including lack of operationally relevant insight, still prevent companies from optimizing asset performance.

Operators are challenged by a lack of visibility into their assets' data and by not having appropriate predictive diagnostics to know in advance when asset failure is about to occur—and why. Instead, operators often use a time-based approach to maintenance, which doesn't take into consideration the way assets are being utilized, their current condition, and real-world operating conditions. Operations and maintenance (O&M) teams miss signs that equipment is about to fail. And they insert more risk into the equation by doing unnecessary routine maintenance. The results: even more inefficiencies, risks, unplanned downtime, and costs.



CONTINUOUS IMPROVEMENT LOOP

Address your business challenges head-on with confidence and precision.

Asset Performance Management (APM) is a suite of software and service solutions designed to help optimize the performance of your assets. APM increases asset reliability and availability while optimizing maintenance costs, mitigating operational risks, and reducing total cost of ownership (TCO).

The suite connects disparate data sources and uses advanced analytics to turn data into actionable insights while fostering collaboration and knowledge-management across the organization. APM works across all equipment, all OEMs, and all industries, across the plant, and across the fleet. It gives organizations the flexibility to develop new analytics and applications, making it versatile to meet changing needs.





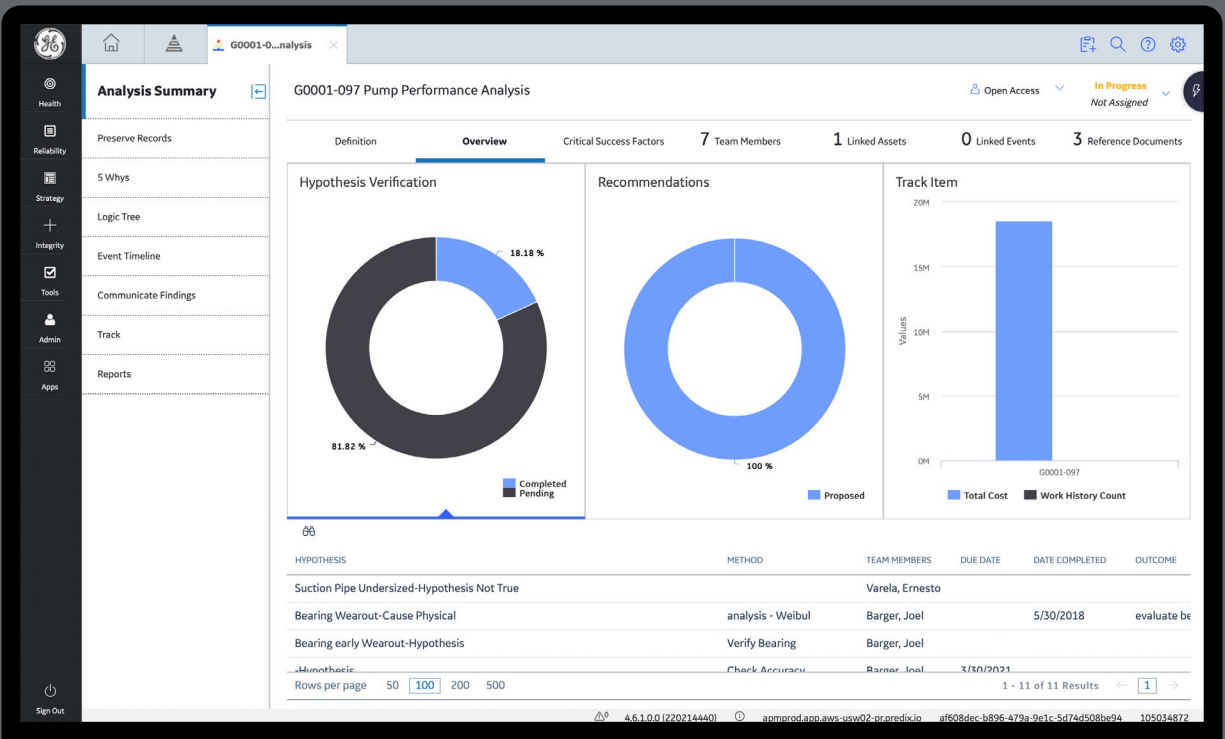
APM RELIABILITY

With APM Reliability, an Asset Performance Management (APM) solution, asset-intensive organizations can leverage advanced predictive diagnostics to analyze data, and detect and diagnose asset issues before they occur. This allows companies to schedule downtime and control costs on their own terms.

APM Reliability is designed to work across all assets (fixed, rotating, and non-rotating), all equipment types and manufacturers (GE and non-GE), and all industries — across the plant and across the enterprise.

[View demo](#)





Explore the wide-ranging benefits and potential of APM Reliability

01

Collaborate across functional teams to make better operational and maintenance decisions

02

Measure the effectiveness of asset strategies to know when corrections are warranted

03

Develop and retain best practices from an ever-changing workforce to continuously improve decision making

CAPABILITIES

Digital twin blueprints allow analysts to anticipate or identify asset failures earlier, improving reliability and performance by modeling expected versus actual states. Analysts can use structured time-series data and unstructured data, like process parameters and condition alerts, within the context of maintenance strategies and past maintenance. They can also compare performance with similar assets..

Root cause analysis (RCA) uses a standard methodology for investigation of failures, provides better understanding and analysis of the underlying cause of failure, and captures and institutionalizes that information to help prevent future occurrences.

Reliability analysis provides a comprehensive set of analytical tools to help understand causes of asset failure patterns and the true cost of failure. These tools can help you analyze data to identify bad actors and recurring asset failures, develop operational and maintenance strategies, and evaluate the effectiveness of those strategies over time. Wizards allow users to quickly build growth, Weibull, cost of unreliability, and production analyses.

Accelerators help you gain value faster with powerful pre-built data templates and configurations. Our comprehensive range of Accelerators supports asset reliability, including 350+ Digital Twins, RCA templates, and critical workflows and processes..





CUSTOMER RESULTS



“It’s ok to collect data—but in the end you have to really do something with it.”
Delta uses APM Reliability to analyze engine data—from 14 models, 4 OEMs—to detect changes and keep its passengers safe.

– **Jeff Slagle**
General Manager, Propulsion Engineering
Delta Air Lines



SRP uses APM Reliability “to help us get to ‘no unplanned downtime’ by moving us to more planned outages instead of reactionary or emergency outages and to show us when things are going to happen instead of waiting until they occur.”

– **May Millies**
Manager, Power Generation
Services, SRP

Watch the video



See the case study



APM SUITE

GE Vernova's APM boosts asset reliability, reduces maintenance costs, mitigates risks, and lowers TCO. It integrates diverse data sources with advanced analytics for actionable insights and fosters collaboration and knowledge management. Available on premises or in the cloud, APM works with all equipment, OEMs, and industries across plants and fleets.



APM Foundation/ Essentials

IT/OT connectivity and integration

- EAM systems
- HMI/SCADA, historian, MES systems
- Edge OT connectivity and analytics
- GIS systems

Data management and processing

- Common asset model (or) hierarchy
- Analytics management and execution*
- Infrastructure Data Fabric*
- Policy designer
- End-to-end security

Monitoring, analysis, and event management

- Advanced visualization*
- Dashboards, interactive data analysis
- Criticality, alerts, and recommendations
- HMI visualizations and alarms*

*Cloud only



APM Reliability

Predicting equipment issues early

- Reliability analytics
- Root cause analysis
- Performance Intelligence
- Thermal performance and economic advisory
- SmartSignal
- Predictive diagnostics
- Digital twin blueprints



APM Health

Unified view of assets' current state and health

- Rounds/Rounds Pro
- eLogs
- Health manager
- Calibration management



APM Strategy

Minimize risk and optimize lifecycle costs

- RCM/FMEA
- Strategy management
- Strategy optimization
- Strategy implementation
- Lifecycle cost analysis



APM Safety

Reduce hazards risk within industrial processes

- Hazard analysis
- SIS management
- Management of change



APM Integrity

Ensuring compliance and containment

- Compliance management
- Inspection management
- Thickness monitoring
- Inspection with risk control



EXPLORE THE BENEFITS

Drive asset reliability and team efficiency with our next-generation operator rounds software. Improve reliability, availability, and productivity while optimizing maintenance costs and mitigating risks.

Get started



GE VERNOVA

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