Advanced Solutions

Power PdM
**Power PdM**

Power PdM provides power utilities with a comprehensive toolset to improve reliability of critical power generation and transmission and distribution (T&D) assets. This increased visibility into asset health and condition makes it easy to close the loop in predictive maintenance strategies, improving asset reliability and providing cost savings in the process. Anticipate and proactively resolve emerging equipment problems long before they result in costly forced outages or serious damage to critical assets.

Against a backdrop of unprecedented changes in the power sector, Power PdM provides a more effective way to extend asset life, improve asset and network reliability and reduce costs.

Power PdM is Powered by Matrikon, which represents vendor neutrality. This product works with third-party control systems and applications.

**POWER UTILITY CHALLENGES**

Power companies worldwide are facing unprecedented challenges: shrinking reserve capacity margins, aging workforce and lack of new recruits, aging infrastructure, and a need to integrate renewable energy sources are just some of the issues. At the same time, budgets for operations and maintenance as well as capital expenditure are being scaled back. In this landscape, it all comes down to doing more with less.

Progressive power companies are finding innovative solutions to reduce the risks of forced outages and improve availability and reliability of critical assets. But these same solutions also help drive costs out of their power delivery chain. They are reducing maintenance costs, safely deferring asset acquisitions and overhauls, and keeping the lights on with fewer and less-experienced staff.

Ultimately, achieving the lowest total lifecycle cost per kilowatt-hour for power delivery—while ensuring stable and reliable power delivery—will be the true measure of success.

**DELIVERING OPERATIONAL EXCELLENCE**

Power PdM is the most complete and comprehensive solution available today for driving business value from predictive asset management strategies. It orchestrates all the business processes necessary to proactively manage asset sustainment and reduce risks of forced outages.

An effective condition monitoring program is generally considered essential for ensuring high availability and reliability of critical and capital-intensive assets. But many power companies struggle to make effective use of the data they already collect.

Power PdM’s pre-built asset models encapsulate established best-practices for condition monitoring and predictive maintenance across a wide variety of power industry asset types. This significantly reduces implementation costs and dramatically shortens deployment time. At the same time, Power PdM is flexible enough to adapt to your organization’s existing condition monitoring program.

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**FEATURES & BENEFITS**

- Reduce the risk and impact of unplanned outages
- Improve availability and reliability of critical assets
- Proactively manage maintenance to ensure delivery network reliability
- Link maintenance work plans directly to reliability improvement strategies
- Reduce costs significantly by maintaining assets at the right time—before they fail

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While often considered a marvel of engineering, the current North American transmission and distribution (T&D) infrastructure is somewhat disjointed, aging, and becoming increasingly unreliable and inefficient.

Harry Forbes, ARC Advisory Group
**BENEFITS**

**Asset Management**
- Extend asset lifespan and reduce total cost of ownership by proactively managing asset health
- Anticipate emerging problems
- Focus limited resources on most at-risk critical assets
- Update condition-based maintenance plans based on each asset’s current condition

**System Operations**
- Avoid unnecessary load shedding and transmission load relief actions
- Understand how health condition of critical assets impacts operating constraints

**Strategic Asset Planning**
- Defer asset acquisitions while mitigating risks
- Strategically allocate limited investment resources to repair, refurbish or replace
- Justify capital expenditure business cases

**Across the Enterprise**
- Collaborate across organizational boundaries
- Demonstrate transparency and best practices to regulatory commissions
- Expand system coverage gradually, growing as your requirements evolve and resources permit

**CLOSE THE LOOP ON PREDICTIVE MAINTENANCE**

**Anticipate**
Pre-built asset models encapsulate the standards-based best practices for diagnosis and interpretation of a large suite of maintenance field tests. The predictive modeling analysis forecasts when critical assets will require further maintenance attention, and when they will cross established risk tolerance thresholds.

**Collaborate**
Share information transparently across various groups in the organization: operations, maintenance, engineering, finance. Work together on questions regarding critical assets. Ensure everyone has all the latest information available in one place. Demonstrate to regulatory authorities that best practices are being followed. Help senior experts focus on the most challenging strategic problems.

**Act**
Link directly with enterprise asset management (EAM) systems to execute true condition-based maintenance and predictive maintenance strategies. Link directly with asset investment planning (AIP) systems to support and justify the business case to repair vs. replace a critical asset. Orchestrate business processes and support effective decision-making. Proactively reduce risks of avoidable incidents and forced outages.

In the big picture, their solution is a cost-effective means of maintaining visibility of the health of assets that are critical to the business, whether this be transformers or any other piece of equipment.

Neil Gregory, Manager, Reliability Engineering, Strategic Asset Management, Meridian Energy
PEOPLE—PROCESS—TECHNOLOGY

Power PdM helps enable and sustain improvements in overall asset effectiveness and power reliability by bridging the gaps between people, process and technology.

People
Power PdM captures valuable organizational knowledge, enabling less experienced staff to become more effective more quickly.

Process
Power PdM institutionalizes the PdM program by orchestrating the multitude of business processes that drive value.

Technology
Power PdM:
• collects data from other enterprise information systems
• analyzes test results according to established best practices
• predicts when assets will reach established thresholds for risk tolerance
• alerts asset owners when follow-up action is required
• reports fleet-wide asset health transparently and objectively

‘Powered by Matrikon’ symbolizes that this product/solution is system and application independent.

For More Information
For more information about Power PdM, visit our website www.honeywell.com/ps or contact your Honeywell account manager.

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