

Transform asset reliability with predictive maintenance for energy and resources

Reduce costs and maximize uptime through AI and IoT-powered maintenance strategies



Energy and resource companies face unprecedented pressure to maximize asset reliability while minimizing costs. With downtime losses averaging \$253 million annually per plant¹ and the industrial IoT market expected to reach \$137 billion by 2030,² predictive maintenance offers a compelling solution that increases equipment uptime by 10 to 20 percent while reducing maintenance costs by five to 10 percent.³

- 1 **Prevent catastrophic asset failures** by securely exchanging equipment sensor data between operators and vendors, enabling remote monitoring and proactive identification of potential issues before they cause downtime.
- 2 **Increase equipment uptime by 10-20%** through AI-powered analysis that examines historical operational data, failure patterns, and maintenance schedules to predict when components are likely to fail.
- 3 **Reduce maintenance costs by 5-10%** by shifting from reactive or scheduled maintenance to predictive approaches that optimize resource allocation and minimize unnecessary work.
- 4 **Bridge the growing skills gap** as experienced maintenance workers retire by capturing their knowledge in intelligent systems that provide new technicians with immediate access to critical information.
- 5 **Scale predictive capabilities enterprise wide** across equipment types and facilities, extending beyond critical assets to include moderately complex equipment like motors, automation systems, and pressure equipment.
- 6 **Eliminate time wasted searching for information** with intelligent digital assistants that instantly provide technicians with relevant drawings, manuals, safety protocols, and troubleshooting instructions.
- 7 **Ensure seamless spare parts procurement** through the same secure digital backbone that handles sensor data, enabling tracking from order to delivery to avoid asset downtime and safety incidents.
- 8 **Enable secure third-party collaboration** with role-based identity management that provides contractors and service providers precisely the access they need for efficient maintenance activities.

Resources

[Learn more >](#)

1 Siemens, *The True Cost of Downtime 2024*, 2024

2 IndustryARC, *Industrial IoT Market Size, Share | Industry Trend & Forecast 2030*

3 Deloitte, *Predictive Maintenance and the smart factory*, 2022