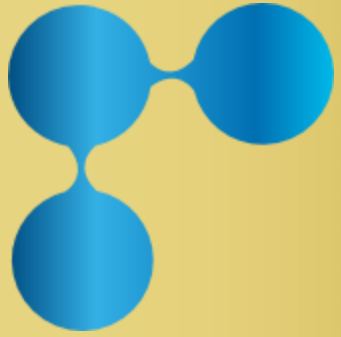


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Championing Success Panel

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The Enthusiasm



The Reality



What's my role in Championing Success?



Westlake

Empower, Train, Grow



PQ Corporation

Spark, Stagnation, and Structure

PRATT
INDUSTRIES

Tailored Tools, Shared Success



Strategic Effort, Lasting Impact

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Organizational Rollout Strategy

User Enablement and Use Case Sprints

Evaluation Checkpoints

Success Guide

Your success is more than just tracking metrics or sending frequent updates. It's about creating meaningful connections during implementation and beyond to drive real business outcomes at every step of your journey.

Customer Stories

Conneqt 2023

Seeq Deployment at Scale
Kim Price at Cargill outlines steps to effectively navigate and implement a strategy for a successful rollout.

Conneqt 2024

Plan, Learn, Adapt - Rollout Strategies for a Diverse Organization
Fariba Inami with PQ Corp outlines rollout strategies for diverse organizations including planning, learning, and adapting effectively.

CR Monetize

Energy Testing

Analysis Feb 20, 2025 10:35 AM - SOM - Turbine

Technical Analysis of Turbine Vibration and Performance

Description: This analysis focuses on monitoring and diagnosing vibration issues in the bearings of Turbine 1 at Site A. The primary challenge is to identify abnormal vibration patterns that could indicate potential mechanical failures or inefficiencies in the turbine operation. The analysis utilizes a Self Organizing Map (SOM) to detect anomalies in vibration signals and turbine shaft speed, which are critical for maintaining optimal performance and preventing costly downtimes.

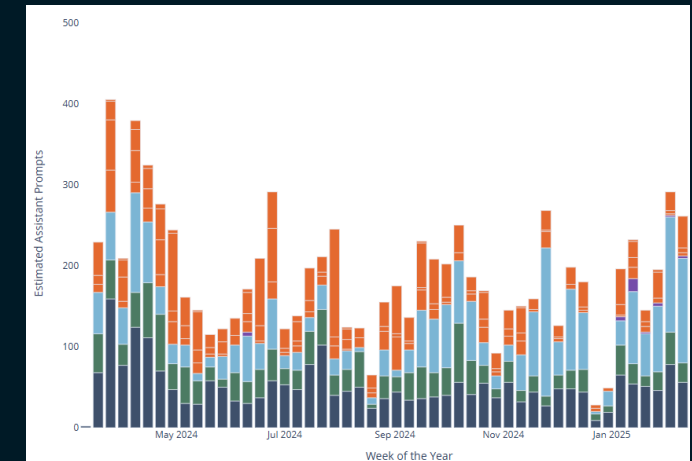
Problem Overview: The primary issue involves monitoring the vibration levels in the bearings of Turbine 1. Excessive vibrations can lead to mechanical wear and tear, resulting in equipment failure. The system in focus includes the vibration signals from three bearings and the turbine shaft speed, which are analyzed to detect any deviations from normal operating conditions.

Impact: Unchecked vibration issues can lead to significant safety risks, increased maintenance costs, and unplanned production halts. These factors can adversely affect the operational efficiency and financial performance of the facility. Early detection of anomalies can mitigate these risks by enabling timely maintenance interventions.

Specific Technical Details: The analysis uses vibration signals from three bearings (Vibration 1 Bearing 1, 2, and 3) and the turbine shaft speed. The vibration levels are measured in inches per second (in/s), and the shaft speed is measured as a percentage (%). The Self Organizing Map (SOM) is configured with an anomaly threshold of 99, a sigma of 1, and a learning rate of 0.5 to effectively identify outliers in the data.

Action Items: The engineering team will monitor the outputs of the SOM analysis to identify any anomalies. If anomalies are detected, the maintenance team will be alerted to inspect the turbine bearings and shaft for potential issues. The team responsible for this task includes the condition monitoring specialists and the maintenance crew, with a response time of 24 hours upon anomaly detection. Tools required include vibration analysis software and standard maintenance equipment.

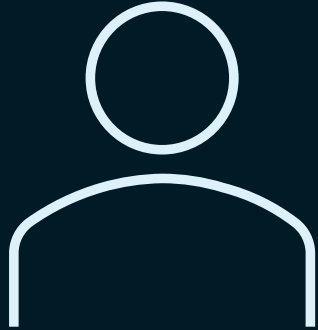
Impact	Impact Calculation Method
\$11K	Continuous
Industry	Initiatives
Metals Materials & Mining	Batch Monitoring



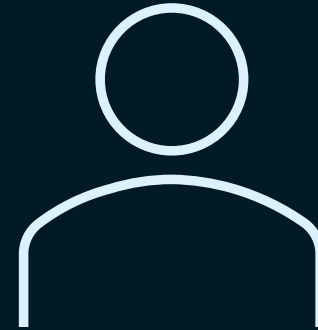
Success Guide with Examples

Impact Reports

Champions Dashboard



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