



SOLUTION BRIEF

Predictive Health Maintenance for Power Line Transmission Assets



Transform data into strategic business value

Visual inspections and manual health scoring of assets like transmission lines, poles and structures provides a wealth of information for transmission providers. However, unless this information is combined with historical maintenance data and advanced analytics used to recognize patterns and actionable prognostics – the real value of the data is never recognized.

Clockworks' Advanced Predictive Analytics Platform combines all of your disparate data sources including inspection data, maintenance records, and operation data, as well as ancillary information such as asset characteristics, lightning impact and more. Advanced analytical methods are then applied to identify patterns and develop Predictive Health Maintenance prognostics that best fit your environment. The result is the ability to leverage high fidelity actionable prognostics and decision support tools to provide insights down to the individual asset level vs the segment or line level.

AT-A-GLANCE

Advanced analytics provide high fidelity decision support for transmission power lines as well as key structural equipment such as transformers, substations, and relays.

- Control Costs
- Improve T-line health
- Anticipate T-line failures
- Plan asset end-of-life

ABOUT CLOCKWORK SOLUTIONS

- 25+ years of experience
- Dedicated focus on strategic assets
- Enterprise grade
- SaaS or on Premises

“Using Clockwork’s predictive analysis and software to support life cycle management decisions in our vehicle fleet, we’ve exceeded \$500 million in cost avoidance over four years.”

- Program Manager

How Can Predictive Health Maintenance (PHM) Work for You?

A PHM approach that takes a wholistic view of your asset’s characteristics, history, and environment provides the ability to generate high fidelity prognostics and decision support for insights down to the individual asset level vs. at the macro or line level.

- Proactively monitor asset health with prognostics at the pole / tower level vs. segment or line
- Determine environment impacts such as lightning data when determining maintenance and asset replacement strategies
- Facilitate end-of-life planning to minimize downtime and outages
- Compare maintenance options to determine the most cost-effective solutions



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Advanced Analytics for Real-World Business Problems

Clockwork Solutions is a global leader in predictive analytics solutions for organizations with strategic, high-value fleets and assets with a focus on improving asset availability, reducing parts inventory, and controlling maintenance costs. With more than 30 years of experience delivering solutions for Fortune 500 enterprises across multiple industries and military organizations worldwide, Clockwork delivers a full range of solutions that enable enterprises to unlock the full value of their data.



Condition Based Maintenance
(CBM) Prognostics



Predictive Health Maintenance
(PHM) Prognostics



Lifecycle Management
(LCM) Analytics



Performance Based Logistics
(PBL) Analysis



Industrial Internet of
Things (IIoT)



Data Science as a
Service (DSAAS)



Data Management /
Data Quality



Custom Analytical Studies
and Services

Clockwork's Advanced Analytics Platform is purpose built from the ground up for high-fidelity analytics of strategic, capital-intensive assets. This means that everything we do is focused on delivering to you the most accurate solutions for your environment.

- Open and customizable platform that adapts to your environment
- Ability to model your assets down to the individual asset and its parts on up to the T-line level
- Powerful and flexible reporting and data visualization
- Sophisticated What-if analysis capabilities for scenario analysis
- Support for multiple analytic methodologies and technologies including Discrete Event Simulation for the most accurate results that match your reality

For more information or a demo of how Clockwork can help you unlock the hidden value in your data, email us at info@clockwork-solutions or visit us online at clockwork-solutions.com.