GELECTRIC

Predictive Maintenance for Electrical Machineries

Introduction

Predictive maintenance is becoming increasingly important for the maritime industry as a means to reduce maintenance costs, prevent unexpected downtime, and improve safety. Electrical motors play a critical role in vessel operations and are subject to wear and tear that can lead to breakdowns if not properly monitored and maintained. By implementing predictive maintenance techniques such as data analysis and machine learning for electrical motors on board, vessel operators can identify potential issues before they become major problems, allowing for timely repairs and replacements. This not only reduces costs and improves efficiency but also enhances overall performance while promoting sustainability by reducing waste and carbon emissions

Benefits

By implementing predictive maintenance techniques for electrical machines on board, vessel operators can benefit from improved reliability, reduced maintenance costs, and increased safety. By detecting potential issues before they become critical, vessel operators can perform timely repairs and replacements, minimizing unexpected downtime and avoiding costly emergency repairs. Predictive maintenance also enables vessels to operate more efficiently by optimizing maintenance schedules, reducing unnecessary maintenance, and extending the lifespan of critical equipment. Additionally, by reducing the need for manual inspections and increasing the accuracy of maintenance predictions, predictive maintenance techniques can improve safety and reduce the risk of accidents. Overall, predictive maintenance offers a cost-effective and sustainable solution for improving vessel performance and reducing the environmental impact of maritime operations.

Our Offering

- **Our unique machine learning model:** Our predictive maintenance solution uses a unique machine learning model to analyze onboard sensor data and identify potential issues before they become serious problems.
- **Onboard monitoring for engines:** Our system continuously monitors the condition of electrical machines onboard, looking for anomalies and potential issues that could cause downtime or other problems. We've designed our solution to perform all processing and calculations directly onboard the vessel, ensuring data privacy and reducing reliance on external networks.
- **Online monitoring dashboards for land officers:** In addition to onboard monitoring, our system also provides online dashboards that enable land officers to monitor the condition of electrical machines remotely.
- **IoT infrastructures can connect with other solution providers:** Our system is built on a flexible architecture that enables it to integrate with other IoT solutions, enabling vessel operators to take advantage of a wide range of additional capabilities and services.

Get in touch

To learn more about our predictive maintenance and its benefits, please contact us.

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PREDICT THE FUTURE, PREVENT DOWNTIME