GENSET REMOTE MONITORING SOLUTION

Abstract

Heavy electrical equipment manufacturers remain responsible for the operation of every piece of equipment through its life cycle.

Inefficient operation of equipment causes excess energy consumption, and frequent breakdowns resulting in expenditure that could have otherwise been avoided.

This paper presents a point of view on remote monitoring of gensets, its benefits, and how Infosys leverages its expertise to implement the same.

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Problem:

Heavy equipment monitoring has largely been on-location and manual, with limited data obtained. This reactive approach in maintaining their equipment has made manufacturers incur large losses that can easily and effectively be minimized using remote monitoring.

Solution :

Infosys brings together a diverse set of Engineering, IT, and domain-specific expertise, that are critical Ingredients to build a connected, end-to-end, remote monitoring solution enabling manufacturers to monitor engine parameters remotely and track faults.

The solution consists of:

- Highly cost-optimized hardware built for performance, captures key engine parameters and their application data

- Development of an M2M device-monitoring platform

- Enterprise interface through a web application that enables easy visualization of the genset status and parameters

- Fault data is reported to the service team as SMS or E-mail or displayed on a web application

In addition, there is a provision to configure frequency of data collection and mode of alert communication.

This solution is capable of monitoring hundreds of thousands of devices across multiple variants.

Business benefits:

- Improved MTTR (Mean time to repair) and MTBB (Mean time between breakdowns)

- Improved operational efficiency by continuous asset health monitoring and interventions as required

- Creates demand visibility for services and spare parts

- Better planning of support engineer mobilization with warnings and alerts transmitted in near real-time

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