HV\ssets

HV Assets Care
Asset Management Platform

ADVANCED ANALYSIS AND DIAGNOSTICS

The HV Assets Care platform optimizes high-voltage asset management and online monitoring.

The HV Assets Care platform optimizes high-voltage asset management, enabling offline and online monitoring (using sensors), data analysis, and diagnostics. It has a secure interface for uploading oil analysis reports from the preventive maintenance of each asset.

All transmitted and stored data is encrypted, using SSL/TLS and AES-256 standards. The sensors are connected to the cloud through the Sense Gate, an industrial IoT gateway, via LTE/4G.

HV Assets offers flexible solutions, enabling the monitoring of virtually your entire fleet of transformers.

Application

The platform is used for processing offline data from samples of oil quality analysis (physicochemical) and dissolved gas analysis (chromatography), allowing the upload of the history of all preventive maintenance since commissioning for in-depth analysis. In addition to enabling the analysis of offline data (laboratory reports), it is also used for real-time visualization of measurements from sensors connected to the cloud.

Key Features

Health Index
Fleet ranking for asset management optimization

Criticality Index
Asset value and impact on the operation assist in prioritization

Advanced Analyses
Duval Triangle and Pentagon, and ratio analysis, approved by IEEE

Data Visualization
Historical graphs and general tables with market limits

Maximum Security
Transmitted and stored data are encrypted to SSL/TLS and AES-256 standards

Health Index

Dissolved Gas Analysis (DGA) and Oil Quality Analysis (OQA) enable the generation of the transformer fleet ranking based on scores.

Duval Triangle and Pentagon

DGA through consolidated methods for fault diagnosis, such as the Duval Triangle and Pentagon, and ratio analysis, recommended by IEEE.