

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 the management of high-voltage assets, enabling offline and online monitoring (using sensors), data analysis, and diagnosis. It has an interface in a secure environment for uploading oil analysis reports of preventive maintenance of each asset and automated processing, through the use of Artificial Intelligence (AI) for data extraction.

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), both for mineral, vegetable, and synthetic oil, 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

Reports Upload

Laboratory reports in PDF are processed automatically through the Artificial Intelligence application

Notifications

Pre-analyzes the data and notifies the user about critical issues

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.

HV\assets Care Upload de Arquivo DGA/OQA Sensores Ativos Suporte Perfil Sair

Controles No. Serial: 1022141734, ... Buscar TAG: Tudo Status Operacional: Tudo Data de Atualização: 01/01/2020 - ... Score: 0 - 100

No. Serial	TAG	Descrição	Fabricante	Fabricação	Potência (MVA)	Tensão (kV)	Score	Categoria	Criticidade	Atualização	Qualidade	Score DG
1022141734	TR-02	SE Principal	WEG	2014	32.5	138	29.7	Aceitável	44.6	09-27-2021	0	29.7
CHIX-02	Unitária - CHIX-02	SE Unitária	ABB	2014	2	34.5	0.0	Novo	0.0	06-05-2025	10	0.0
IZBR61386	TF04 - Fase C	SE SPA2	ABB	2014	165	525	0.0	Novo	0.0	02-14-2022	0	0.0
IZBR61387	TF1 - HER	SE Hermenegildo	ABB	2014	210	138	0.0	Novo	0.0	02-12-2025	5	0.0

Health Index
Visão Geral
Amostra
Histórico

Duval Triangle and Pentagon

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

