



CONDITION MONITORING

Proactively detect equipment anomaly, minimise cost due to unplanned downtime & optimise end-to-end system performance.

WE KEEP YOUR PLANTS & VESSELS RUNNING



1 Architecture Consultation

Digital transformation and automation consultancy



2 Data Collection

On-premise, periodical or semi-online data collection available



3 Performance Monitoring

Online monitoring platform with remote monitoring capabilities



4 Predictive Solution

Machine Learning and Artificial Intelligence to optimise performance

KEY BENEFITS



Real-time productivity information at your finger tips

Analytical dashboard with equipment performance data



Maximise productivity & efficiency

Early fault detection to reduce unplanned downtime



Cost Effective & Scalable Solution

Range of plug-&-play to fully customised solutions



Environmental Sustainability

Enhance energy efficiency and reduction of carbon footprint

Data Collection

Installation of scalable smart sensor, ranging from plug-&-play to fully customised, on equipment to measure & document different operating parameters performance.

Continuous Online & Offline Condition Monitoring

Industry & Sector Application



Factory Automation



Power Generation, Energy & Utilities



Facility Management & Building Automation



Structural Health Monitoring



Naval & Marine



Chemical Processing



Industrial Manufacturing



Oil & Gas



Metal & Minerals



Pharmaceutical & Biotech



Pulp & Paper



Waste Water Treatment

Equipment Application

▶ Transformer

▶ Switchgear

▶ Cables

▶ Motor

▶ Generator

▶ Pump

▶ Turbine

▶ Gearbox

▶ Compressor

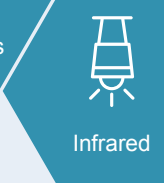
▶ Blower

▶ Fan

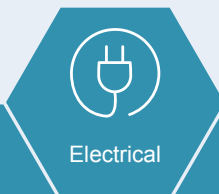
Condition Monitoring Techniques



Oil Analysis



Infrared



Electrical



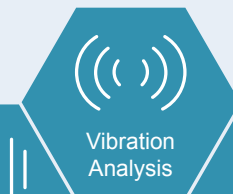
Operational Performance



Ultrasonic



Acoustic



Vibration Analysis



Gas Analysis



Performance Monitoring

Monitor your plants & vessels equipment health & performance in a single unified platform.



Web and mobile based dashboard

Historical reports stored on premise/Cloud

Real-time remote monitoring

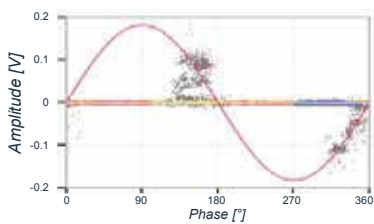
Anomaly alerts & notifications

Real time productivity information at your fingertips

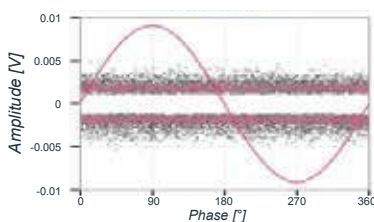


High Frequency Current Transformer (HFCT)

Phase Resolved HFCT - Before

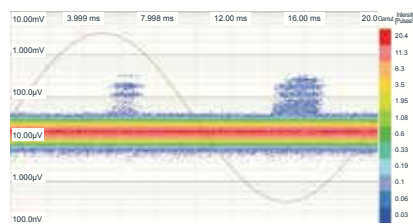


Phase Resolved HFCT - After

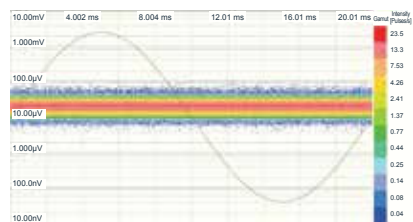


Ultra High Frequency (UHF)

Phase Resolved UHF - Before

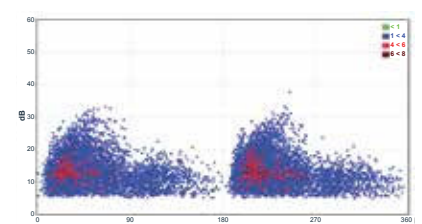


Phase Resolved UHF - After

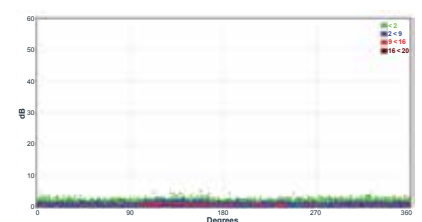


Transient Earth Voltage (TEV)

Phase Resolved TEV - Before



Phase Resolved TEV - After



Predictive Solution

Transform your maintenance plan approach from reactive to proactive.
Customise your Predictive Solution according to your industry & business needs.



- ▶ Report with equipment alerts & notifications
- ▶ KPI tracking with productivity & process traceability
- ▶ Early fault detection before typical fault failure
- ▶ Equipment productivity & maintenance analysis
- ▶ Artificial intelligence trend analysis

Adopting a combination of human insights, Machine Learning & Artificial Intelligence (AI), we can customised a predictive maintenance plan to prevent unplanned equipment downtime & related costs.

To get you ready for the future, we offer customised & scalable solutions, allowing you to increase productivity & efficiency through the power of data.

Reach out to us for an Architecture Consultation today!

Contact us at



www.swts.com/contact-us



bd@swts.com

SWTS Asia



Singapore | Thailand | Indonesia | Malaysia | Philippines | Vietnam