WE CARE:

- Diagnostic/condition assessment of electrical assets like motors, generators, transformers, cables.
- Provides cleaning, drying, varnishing services including specialized cryogenic cleaning services on-site.



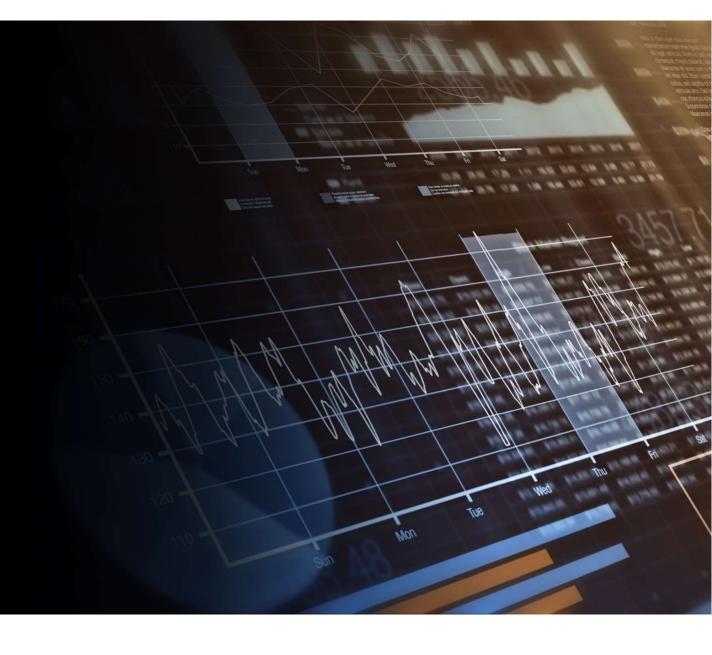
Our Objective

- Whenever you need to get your motor/generator diagnosed or cleaned, we strive to be the first name you recall!
- Needless to mention that this recall value will only be achieved when you are extremely satisfied with the quality of our services and strict adherence to safety protocols.
- This is our ultimate objective that stems from our passion towards supporting you in your maintenance goals.



Our Strengths

- Our Expert Panel has individuals with 15+ years of experience in developing algorithms and analyzing the insulation health of over 10,000+ HT Rotating Machines (motors and Generators) and 200+ Transformers.
- These world class algorithms offer superior analysis besides just parametric tables and graphs, providing accurate identification of insulation defects.
- Our reports provide maintenance plan over the lifetime of the electrical assets that help to prevent premature failures, increase reliability and optimize maintenance budget through better scheduling based on condition vs application criticality



Our Strengths

- Qualified and Trained Field-Testing Team
- Testing Equipment confirming to Global Standards



Our Service Offering

MV/HV Motors & Generators

- Offline Condition Assessment
- Residual Life Analysis / Electrical Testing
- Conventional Cleaning
- Dry-Ice Cleaning
- Training / Consultancy



Glimpses of our Work

Resolving high temperature issue

Machine: 37.5 MVA, 11 kV, 1500 rpm generator

Issue: High Operating Stator temperatures upto 100 °C.

Observation: The stator and rotor had excessive oil and dust contamination.

Solution: Solvent pre-cleaning followed by cryogenic cleaning using dry-ice, drying out and confirming the improvements in the Insulation Resistance and Polarization Index values, stator/rotor/exciter was varnished.

Benefit: Reduced temp - 90 °C, improved reliability, life extension



Glimpses of our Work

High Partial Discharge - Overhangs

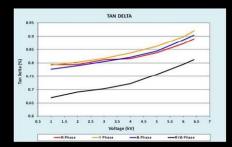
Machine: 22 MW, 11 kV, 1443A, 1500 rpm generator

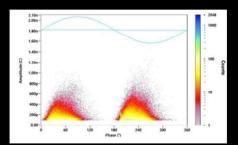
Issue: Diagnostic Testing detected high end-arm PD.

Observation: White powder formation due to erosion of resin content of varnish layer and epoxy-resin component of groundwall insulation.

Solution: Cleaning of the overhangs, varnishing, insertion of additional insulation

Benefit: Reduced end-arm PD, maintaining insulation life and improved reliability









Glimpses of our Work

High Partial Discharge – Slot Exits

Machine: 30 MW, 11 kV, 1500 rpm generator

Issue: Diagnostic Testing detected high energy spark gap PD.

Observation: White powder formation due to erosion of external stress grade tape at slot-ends.

Solution: Cleaning of the stator windings, application of SiC paint

Benefit: Reduced Slot-exit PD, maintaining insulation life and improved reliability

