

NEXERGY

NEXERGY BROCHURE 2025

**ENERGY
INDUSTRY**



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We are specialists in predictive, preventive, and corrective maintenance for transformers, OLTC and transformer assembly.

Our Services

Predictive Maintenance

- Physical and Chemical Analysis
- Chromatographic Analysis (DGA)
- Degree of Polymerization
- PCB Content Analysis
- Furan's Analysis

Electrical Testing

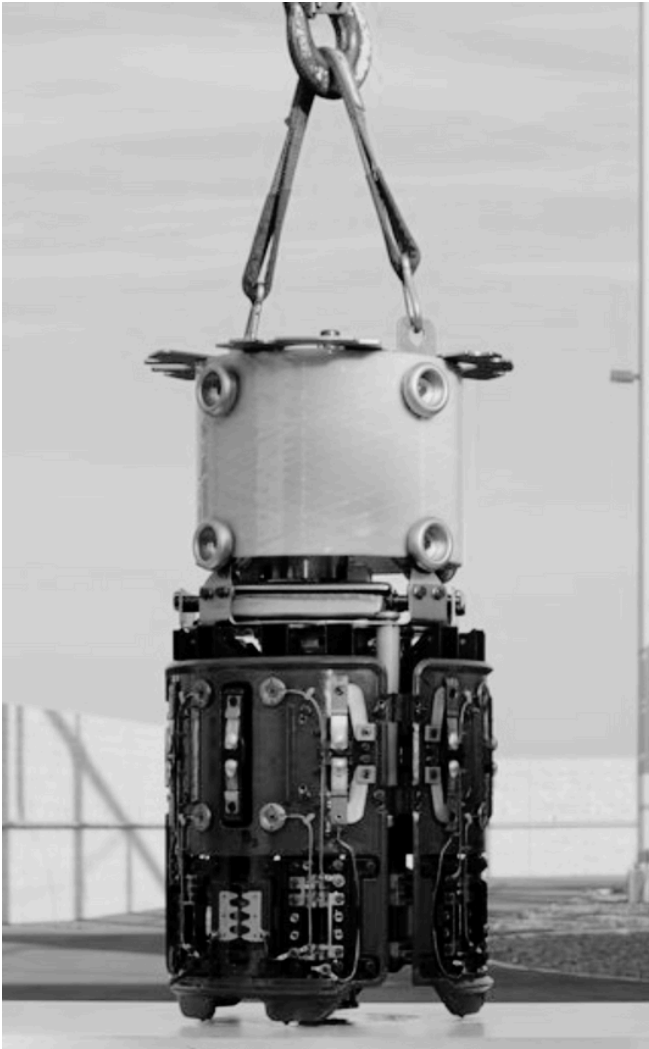
- Winding Resistance Measurement (WRM)
- Transformer Turns Ratio (TTR)
- Insulation resistance
- Transformer Power Factor
- Bushing Power Factor
- Core Insulation Measurement
- Winding Excitation
- TC Ratio, Polarity, and Saturation
- Instrument Operational Check
- Low Voltage Impedance (Leakage Reactance)
- Sweep Frequency Response Analyze (SFRA)
- Phase Relationship

Preventive Maintenance

- Transformer Draining and Filling with Dielectric Oil
- Transformer Vacuum Process



- Oil Degassing and Dehydration by Vacuum
- Inspection and Maintenance of On-load Tap Changers
- Insulation Regeneration Process (Oil - Paper)
- Inhibitor Addition
- Passivator Addition
- Recovery/Improvement of Oil Physicochemical Characteristics by
- Regeneration Using Fuller's Earth



OLTC Predictive and preventive Maintenance

We carry out diagnosis through electrical tests and oil analysis

- -Dynamic resistance measurement (DRM)
- -Winding resistance measurement (WRM)
- - Vibroacoustic measurements using acceleration sensors
- -Position and torque measurement on the drive shaft
- -Dissolved gas analysis (DGA)

During preventive or corrective maintenance we implement strict protocols and procedures for both the on-load tap changer and the motorized mechanism. Our Services

Corrective Maintenance for transformers and OLTC

- Transformer Assembly, Installation, and Start-up
- Transformer Disassembly and Relocation
- On-site Transformer Inspection
- On-site Transformer Repair
- Oil Leak Correction
- Supply and Change of Transformer Accessories and On-load Tap Changer
- Transformer Assembly
- Gasket and Seal Replacement
- Leak Repair or Correction
- Contact Replacement, Alignment and Synchronization
- Supply of Spare Parts such as Premolded, Fixed and Moving Contacts Multi-brand
- Adaptation and Replacement of Multi-brand Tap Changers
- Dielectric Oil Maintenance or Replacement