

ADDITIONAL SERVICES to Power Transformers



CG ELECTRIC SYSTEMS HUNGARY ZRT.
GANZ Transformer

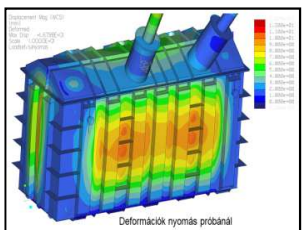
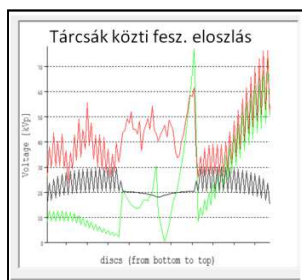
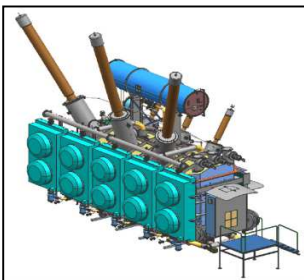
Based on our strengths as

- over 130 years of accumulated experiences in transformer design, manufacturing, refurbishment and repair;
- highly trained and experienced engineers;
- tools, equipments and skilled professionals for testing, repairing and manufacturing power transformers;

we offer the services as below:

EXPERTISE AND CONSULTATION

- Engineering support for preparation of investments (Optimum TOC)
- Preparing or commenting transformer specification
- Preparing or checking and commenting transformer designs
- Control calculations on:
 - earthquake resistance
 - mechanical strength of steel structure
 - overvoltage withstandability
 - short circuit proofness
 - cooling, ageing rate
- Checking the feasibility of needed power upgrade or voltage ratio modification
- Root cause analysis on failed transformers

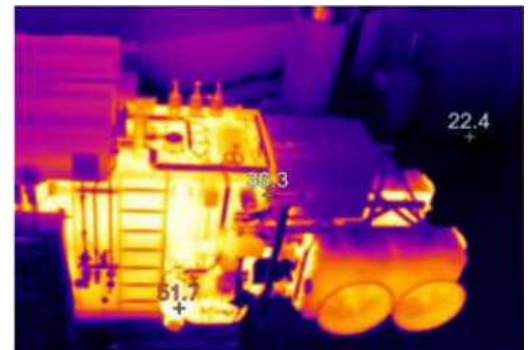


TRAININGS

- Transformers (general knowledge)
- Monitoring
- Diagnostics
- Maintenance
- Theme as per customer requirement

ON-SITE TESTS AND CONDITION ASSESSMENT

- Voltage ratio and phase displacement test
- Winding resistance measurement
- Insulation resistance measurement
- Core and frame insulation checking
- Capacitance and tanDelta measurement
- Insulation diagnostics (RVM, FDS)
- Frequency response analysis (SFRA)
- Tapchanger diagnostics
- Impedance measurements
- Sound level measurement
- Vibration measurement
- Checking of auxiliaries (cooling control, protection and monitoring equipments, OLTC drive, etc.)
- Oil analysis as per IEC 60422
- Oil sampling and dissolved gas analysis (DGA)
- Bushing diagnostics
- Checking of current and voltage transformers
- Thermovision



- Developing a proposal for regular inspection, maintenance, refurbishment or repair of the tested transformer to ensure a long term safe operation

SPARE PARTS

- Purchase and replacement of accessories
- Replacement of no longer manufactured types

Contact

CG Electric Systems Hungary Zrt.
H-1095 Budapest, Soroksári út 30-34.

website: <http://www.cgelectric.hu/contact>