ASSET MAINTENANCE

HV Maintenance Asset Guide
TRANSFORMERS

Understanding the condition of your Transformer is essential to maintaining a reliable power supply. This guide provides an overview of maintenance requirements, recommended servicing intervals and the risks associated with deferred maintenance, helping asset owners make informed decisions about the health and performance of their electrical assets.

WHY DO TRANSFORMERS REQUIRE MAINTENANCE?

- Maintain transformer performance and reliability throughout its operational life.
- Identify developing faults early and reduce the risk of unplanned outages.
- Support asset longevity and assess suitability for future power requirements.
- Support compliance with the Electricity at Work Regulations 1989 and relevant industry standards.

EAWR 1989 | HSG 230 | BS 61439 | BS 6626 BS EN 60076 | BS 60422

WHAT MAINTENANCE IS REQUIRED?

- Asset condition surveys and partial discharge monitoring
- Breather and silica gel maintenance
- Tap changer servicing
- Buchholz relay testing
- Temperature sensor replacement
- Bushing inspection and replacement
- Transformer oil testing, filtration and replacement
- Associated RMU replacement and upgrade works

RECOMMENDED MAINTENANCE TIMESCALES

Every 12 Months

- Visual inspection and condition assessment
- Oil sampling and laboratory analysis
- Moisture, gas and contamination assessment
- Leak detection
- Documentation update
- Security, signage and compound checks

Every 1–3 Years

- Internal condition monitoring

As Required

- Oil filtration or replacement
- Corrective maintenance
- Component replacement based on condition

WHAT HAPPENS IF MAINTENANCE IS NEGLECTED?

- Increase the risk of minor issues developing into major failures.
- Reduce transformer performance and reliability, leading to outages, costly repairs and irreversible damage.
- Expose organisations to operational, legal and financial risks through inadequate security, signage and site conditions

HOW QUARTZELEC CAN HELP

- Deliver one-off asset assessments or planned maintenance programmes.
- Provide specialist HV inspection, testing, maintenance, refurbishment and replacement services.
- Help reduce downtime, extend asset life and maintain network reliability.

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