

Castlet Service Guide

Preventative Maintenance for Maximum Output

Comprehensive support for Castlet and non-Castlet equipment

Why Regular Maintenance Matters

Downtime is expensive. Unexpected failures in electrostatic precipitators (ESPs), transformer rectifiers, and control cubicles can bring your operations to a standstill. That's why Castlet's Service Department offers site-specific preventative maintenance solutions – ensuring reliability, extending equipment life, and supporting compliance.

We help you avoid costly interruptions by identifying issues before they become problems.

What We Offer

Our qualified engineers service both Castlet and non-Castlet systems. Here's an overview of key services across your critical infrastructure:

Transfer Rectifier Units

- Oil sampling and DGA analysis
- Insulation & HU component testing (current and voltage)
- Bushing replacements (LV/HV)
- Oil replacement & filtration (moisture & gas removal)
- Pressure & thermostat testing
- Protection calibration and diagnostics
- Visual inspections for leaks, corrosion, and electrical safety

Control Cubicles

- Secondary circuit testing (open & short circuit)
- V-I curves and performance optimisation
- Fan, light, and control diagnostics
- Firmware updates
- Remote signal and fault alarm verification
- Component torque, heat inspection, and terminal checks



MCC / Auxiliary Systems

- Cable insulation and continuity testing
- MCC power distribution analysis
- Busbar testing
- Interlock system safety checks

Earth Switches

- Corrosion checks and surface repair
- Mechanical operation & interlock reliability testing
- Silica gel breather replacement
- Resistance and micro-switch testing

Following each service visit, you'll receive a detailed condition report outlining the current state of your equipment, any identified issues, and clear recommendations. **This report is designed to help you:**

- **Make informed, site-specific decisions**
- **Prioritise repairs and future maintenance**
- **Support compliance with health, safety, and environmental standards**
- **Plan budgets with greater accuracy**

Our reporting turns technical diagnostics into actionable insight — helping you minimise risk, avoid unplanned downtime, and extend the life of your systems.

During a recent maintenance visit, our team conducted a comprehensive inspection and service of the client's ESP equipment. By proactively identifying and addressing minor wear and potential issues, we helped the client avoid unexpected downtime and costly repairs. As a result, their system is now fully optimised and ready for another year of fault-free operation – delivering peace of mind and uninterrupted performance.

Key benefits yearly maintenance visits:

- Prevented unplanned downtime and production delays
- Extended the operational life of critical equipment
- Improved energy efficiency and system reliability
- Ensure the ESP is collecting as much dust as possible



Let's Build Your Maintenance Plan

Every site is different — we tailor our service packages to your exact setup and risk profile.

Contact our sales team today to book a discovery call or site assessment:

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