

# Electrical machine service inspections

ETEL Services is equipped to visit customer sites and inspect the condition of machinery nationwide. This often saves the need to remove equipment and provides a more detailed assessment than determined by testing alone.

## Services offered

- A comprehensive mechanical and electrical appraisal of machine condition
- Motor circuit (offline) and electrical signature (online) analysis for fast and accurate condition monitoring of low voltage machines
- Onsite electrical testing to monitor winding and insulation condition of stators, rotors and excitors
- Visual inspections of stators, rotors and bearings
- Current and flux field analysis
- Life expectancy analysis of stators in high voltage machines
- Overload testing
- Auditing of existing maintenance activities, and development of reliability improvement plans
- Site fault repairs and maintenance of standby and portable generator sets including:
  - ✓ engine monitoring systems
  - ✓ load sharing (multiple generators)
  - ✓ AVR commissioning
  - ✓ load testing onsite
  - ✓ auto mains fail system
  - ✓ monthly start up contacts

## After service commitment

Following an inspection, ETEL Services issue a comprehensive report detailing all observations, test results and recommendations for further actions.



This type of onsite condition assessment provides information for maintenance personnel to understand machine condition and plan future servicing during shut periods.