

EnergyAce Maintenance & Repair Services

Power Efficient Systems Ltd are an International Award Winning solutions provider of Energy Saving Systems, Electrical Switchgear and Control Panels to all market sectors.

The company was founded in 2002 and manufactures under the unique patented brand of EnergyAce to deliver quality solutions to many blue chip companies and SMEs globally.

We offer a comprehensive range of Planned Preventative Maintenance, Reactive Maintenance or Repair of Electrical Switchgear, Distribution Boards, Power Factor Correction Systems, Voltage Management Systems, Electrical Plant and Machinery.

POWER FACTOR CORRECTION SYSTEMS MAINTENANCE

Power Factor Correction (PFC) and Power Quality (PQ) products are somewhat specialised and offer a difficult challenge to general maintenance staff and contractors, who may not be fully conversant with their operation and associated dangers. A malfunctioning PFC capacitor bank can manifest a multitude of effects onto the main electrical distribution system including, Voltage Multiplication, Nuisance Tripping of Circuits and Unexplained Electrical Failures.

PFC, PQ products and Harmonic Filters are often vital to a client's operation, EnergyAce will ensure correct operation, reliability and potential monthly savings are not compromised through a program of cost effective planned or reactive maintenance schemes to cover all power quality products and associated switchgear irrespective of manufacturer or location.

Financial penalties and circuit currents are likely to rise dramatically as a direct result of faulty power factor correction equipment.

The cost of annual maintenance may only be a fraction of the savings lost due to malfunction or deterioration.

Benefits comprise of:

- ~ Ongoing assurance of financial savings
- ~ Confirmation of maximum power saving
- ~ Protection of your energy saving asset investment
- ~ Compliance towards the CRC initiatives and Insurance requirements

Maintenance and Inspection of Power Factor Correction Systems should be carried out on either an annual or bi-annual basis dependant on a sites demand profile or environmental conditions.



FURTHER INFORMATION & DETAILS

Contact our offices to arrange a cost effective maintenance package that suits your requirements or to find out more about our after sale services irrespective of original manufacturer.

Whether it's for compliance or simply to ensure financial savings and power demand reductions are being achieved, let EnergyAce take the pain of compliance away.

Switchgear Maintenance

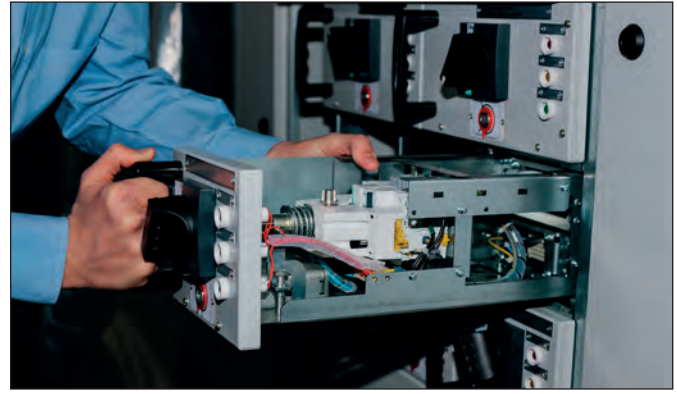
Electrical Switchgear, distribution switchboards and power distribution systems require a degree of regular and continued maintenance for compliance, technical and economic reasons.

Electrical Switchgear should be maintained at a frequency appropriate to the equipment and in line with the manufacturers instructions and although it is difficult to advise on the exact frequency of maintenance, the following factors should be taken into consideration:

- ~ **Type and design of switchgear** – Non oil filled, oil filled, sulphur hexafluoride or vacuum etc
- ~ **Environmental conditions** – Temperature, vibration, humidity etc
- ~ **Location of Switchgear** – Substation, Public area or hazardous area
- ~ **Duty & Demand** – Frequency of operation and percentage of loading
- ~ **Ancillary Systems** – Power Factor Correction etc
- ~ **Reliability** – History of failure, fault operation or occurrences

A user whose activities rely on trouble free operation of the electrical supply or whose processes are critical, may require more frequent maintenance than others who may not be as badly impacted.

In general terms, a visual inspection is recommended within 1 year of installation and additional procedures put in place for planned preventative inspections or maintenance at a suitable frequency.



To help, we recommend maximum periods between inspections should not exceed those detailed in the table below:

General	
Industrial	3 years
Commercial, offices, shops	5 years
Educational	5 years
Buildings Subject to Public Access	
Leisure, Entertainment, Public Areas	3 years
Restaurant, Hotels, Pubs	5 years
Special Areas	
Swimming Pools, Marinas, Fish Farms	1 year
Laundrettes, Petrol Stations	1 year
Construction Sites	3 Months

EnergyAce will advise on compliance and carry out the inspection, test and maintenance on all forms of switchgear systems to limit the likelihood of malfunction, nuisance tripping, ensure compliance and above all ensure safe operation.

EnergyAce have a number of Inspection, test and Maintenance Packages, Thermal Imaging Surveys, Power Surveys and Load Monitoring Services specifically designed to meet the individual needs of each electrical user and site conditions.

Contact us today for expert advice and to discuss your requirements

Let EnergyAce take the pain of compliance away.