

Energy Efficiency and Power Quality

Tech Asset Management works with industry leaders to provide effective and proven reductions in electricity consumption, and a range of customised power quality tests, surveys and solutions.

Voltage Optimisation

The majority of electrical equipment installed in the UK is designed to operate at European harmonised voltage levels, normally around 220 Volts, but most installations in the UK are supplied voltage much higher than this. Around 90% of commercial and industrial buildings in the UK may be using more electricity than they actually require - because their equipment simply does not need the level of voltage supplied, which is then wasted mainly through heat. By installing voltage optimisation, it may be possible to reduce your electricity consumption by up to 20%, and minimise carbon emissions by up to 15% at the same time.

Tech Asset Management can provide a basic assessment of the opportunity for optimisation, simply by analysing your existing electricity bills, and identifying any initial potential for optimisation free of charge. Once completed, this can be used as a baseline to then specify, survey, and complete a full proposal for each supply, each showing the return on investment or ROI.

Our extensive experience in this sector enables quality load analysis, detailed proposals and ensured compliance with standards.

Tech Asset Management engineers have installed over 500 units thus far across the UK, making us a leading installer of this type of technology in the UK.

Power Quality

Our systematic approach to power quality in the UK allows us to clearly record, identify and provide solutions for poor electrical supply quality.

Tech Asset Management uses Three Phase Power Quality Analysers, installed on a building's main incoming supply, to monitor several areas of concern:

- Load balancing, accurate balancing of the loads in an installation can help reduce current in the Neutral conductor, improve power quality and voltage levels, and reduce the capacity or size of electrical equipment.
- Power Factor, this is where inductive loads such as motors and ballasts waste energy, this can be corrected with the installation of automatic Power Factor Correction units
- Harmonic Distortion, a change in the waveform of your electrical supply, causing overheating of equipment, damage to electronic circuits and unwanted or nuisance tripping of thermal overcurrent devices or circuit breakers. This effect can be mitigated with the use of active harmonic filtration, or has been proven to be reduced using the installation of Voltage Optimisation.

"Site specific surveys can usually provide easy to affect solutions to the problem of rising energy costs."



