



Power Quality

Find little problems before they are big problems.

Powered by:



Power Quality Analyzer, enables us to monitor how well your power is doing. Power quality is a measure of how well a system supports reliable operations of its loads.

Power disturbances can originate in consumer power systems, consumer loads or the utility.

Whether it is at your main service or at your different loads, such as machines, devices or equipment - clean power saves you money, by ensuring you are using your power with the best efficiency.

Ensuring you are using the most of your power is by seeing what your Power Factor (percentage of efficiency) is. This is done by doing a load test or study.

The way to achieve a better efficiency, is with capacitors. Capacitors can do a wide range of applications. With our mobile capacitor sizing unit, we can perform a real live test without you purchasing any capacitors. This way we can ensure the results on paper and with a real live test run.

Capacitors can supply power, that you are currently using from the utility. By installing capacitors or a capacitor bank, you will be reducing your utility bill, without changing your load. Weather it is on your main electrical service or at a motor, capacitors make you money. Most cases 20-30% reduction in the equipment and some cases up to 50%.



The Electrical Department Company

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How is your electrical systems health?

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Let us take the pulse of your electrical system. Common problems to most electrical systems are:

VOLTAGE SAGS

Voltage sags are momentary decrease in voltage.

VOLTAGE SURGES

Voltage surges are a voltage rise that can damage devices, equipment and machines. From small electronic components, to large expensive equipment.

PHASE BALANCE

Phase balance, in a perfect world all 3 phases should be balanced or equal to each other. If one of the 3 phases is overloaded, it will cause a 3 phase breaker to trip.

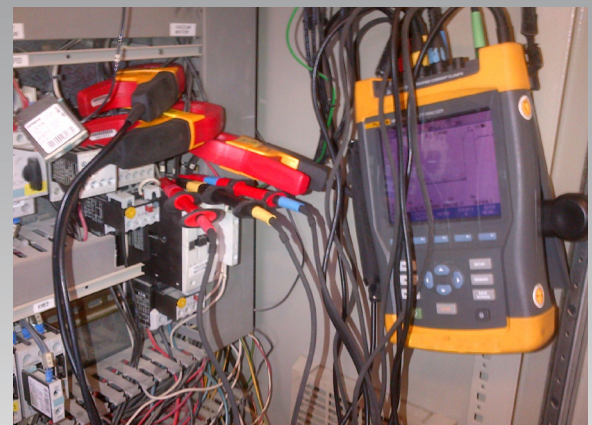
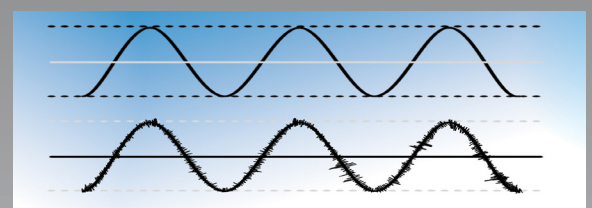
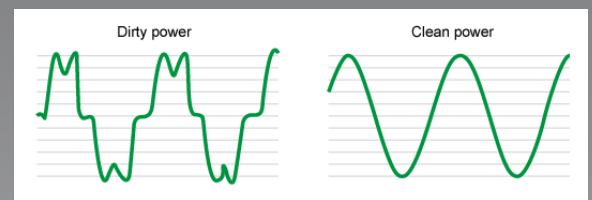
HARMONICS

Also known as dirty power. Harmonics can cause damage to transformers, failure of motors, overheat cables/wires and can damage electronic equipment. Harmonics can be produced from equipment within your facility or even a neighbour factory down the road.

With our state of art testing equipment, we can log (record) up to 45 days of your electrical systems activities. Once done we can provide you a full report, using graphs on how well your system is doing. Our report can show you all aspects of your system such as: voltage, current, kW, kWh, Kvar, power factor.

THINKING OF UPGRADING YOUR ELECTRICAL SERVICE?

Let us look into your current service, with the correct maintenance and servicing you may not need to upgrade. Using capacitors, phase balancing and load testing, you may be able to save \$1000's in unnecessary upgrade costs.



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