PQIS Ltd.

Power Quality Improvement Services Ltd.

How Power Factor Correction Reduces Electricity Costs & Emissions

Power factor correction equipment is used to react to inductive loads applied to an electricity supply generated by business demand.

Figure.1 is the power monitoring data obtained in a low voltage power quality survey. It shows a high reactive power **(KVAr)** and a maximum demand **(KVA)** which is much higher than the **(KW)**.

Figure.2 shows the power factor of the same supply which is very poor. A power factor of at least 0.96 should be achieved

A low power factor increases consumption **(KW)** with higher conductor current losses. Causing also excessive heat and premature failure of electrical equipment .

Figures 3 and 4. show the power quality achieved of a supply with a good power factor.

The reactive power generated is corrected and low (KVAr), the **(KVA)** is just above the **(KW)**. This maximizes the electrical capacity of the supply.

With a low reactive power achieved a better environment for electrical equipment is created.

Business electricity bills are adversely affected by low power factor with reactive charges, additional KW losses and a higher maximum demand.

To reduce company carbon footprint and improve power factor. Contact Power Quality Improvement Services Ltd.

Figure 1.

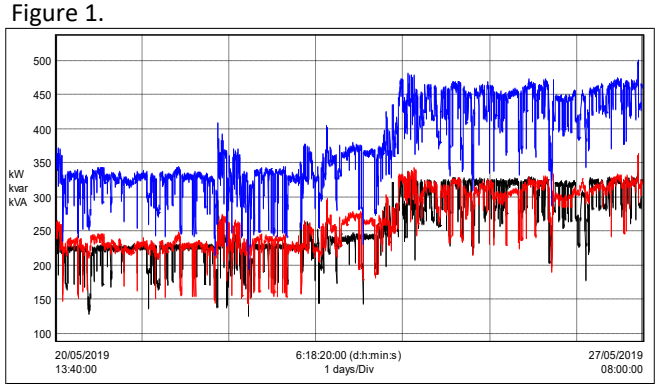

Figure 2.

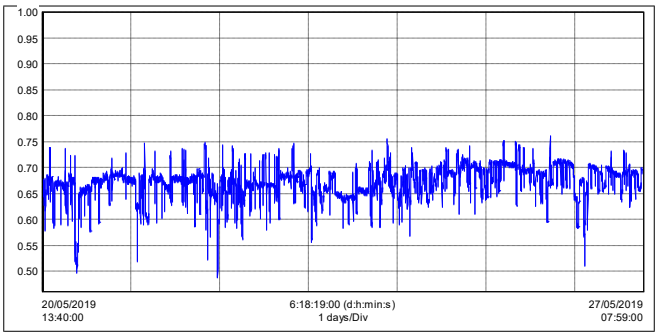

Figure 3.

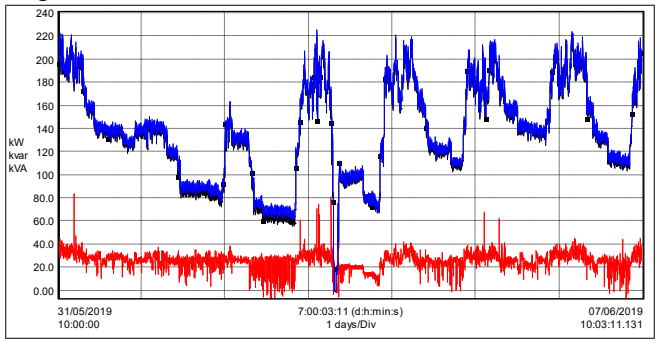

Figure 4.