

## **Why is power factor a concern?**

Power factor is the ratio between the real power and apparent power. Loads that affect mostly most the power factor are the motors and transformers. When loads of those rise up then our power factor is reduce and increases our electricity bill.

**Real power (KW) power factor = apparent power (KVA)**

Remember when our power factor is reduce, an increase in power on the electrical network to do the same work. Then the extra consummation will be charge and a penalty of your electrical Distributor. We know that there is a cost for the installation of a capacitor bank, but we're able to calculates the impact on your electricity bill

### **Local installation**

It is possible to perform a local installation on concern motors to correct problem directly to the source.

#### **Benefit**

Less expensive installation and localized energy loss.

#### **Caution**

Need to activate and de activate banks on load that are switched off

### **Control**

A capacitor bank Controller is the best installation, but more expensive and more impressive.

#### **Benefit**

Power factor is adjusted automatically as the load varies.

#### **Disadvantage**

It requires more space and more expensive.