**Power Factor Correction**

**Improve Your Power Factor**

**Drive Costs Down for Electricity**

**Increase Your Efficiency**

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**Power Triangle**

**KW Actual or Real Power Essentially Constant for Same Load**

**PF SineWave**

**Why Is Power Factor Important?**

Measured as a sinewave, power factor is a measure of how efficiently power is being transferred and used. The power factor is calculated and any ideal world, the power required by the end users (as measured in real) that equals real power, makes up 100% of the generated power.

**But**

In the real world, reactive devices on the system such as motors and transformers consume reactive power. So, utilities must generate reactive power (kvar) and transmit to the end users. This makes up the amount of real power that cannot be transmitted to the end users due to the transmission characteristics. Reactive power is charged to the consumer by the service provider. Utilities must ensure enough power is being transmitted to meet the demand by supplying their own reactive power and to recover losses (costs, utilities) may often charge a power factor penalty.

**The Results**

If your power factor is below 0.93, you have a significant demand for reactive power within your facility and the utility must supply and charge excessive penalties. To save money, you can install your own reactive power sources by capacitor banks (and avoid your own charges).

**GE’s Solution**

**Eliminate Utility Charges** for your reactive power demand by implementing your own power factor equipment, such as capacitors from GE.

GE delivers power factor correction for low and medium voltage systems.

**Low Voltage Capacitors**

- **Power Capacitors**: 1 Ph, 2 Ph, 3 Ph, 480 Vac
- **Automatic Switching**: 30 to 800 Kvar (500 Kvar, 600 Vac)
- **Active Harmonic Filters**: 1 to 600 Kvar, 3 Ph, 480 Vac

**Medium Voltage Capacitors**

- **Power Capacitors**: 3 Ph, 3000 Kvar, 6000 Vac
- **Metal-Enclosed Solutions**: 2 to 8 Mvar, reactive power ratings up to 8 Mvar

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**For More Information, Please Visit**

Renew GE/Capacitors